



# BADGER STATE Smoke Signals

Serving Amateur Radio in Wisconsin



RETURN ADDRESS:  
Kenneth A. Ebnetter  
822 Wauona Trail  
Portage WI 53901

BULK RATE  
U. S. POSTAGE  
PAID  
PERMIT #265  
PORTAGE WI 53901

THINK SPRING!!



Published Monthly Since 1969

Third Class Mail

Vol. 19 No. 3 - 219th Consecutive Monthly Issue - Baraboo, Wisconsin - March 1988

Forwarding & Return Postage Guaranteed - Address Correction Requested

## ARRL Board of Directors Meets

The ARRL Board of Directors met on January 22-23 in Farmington, Connecticut.

The following synopsis is a brief overview; the complete minutes of the Board meeting will be published in the March issue of QST. Among the important actions taken were the following:

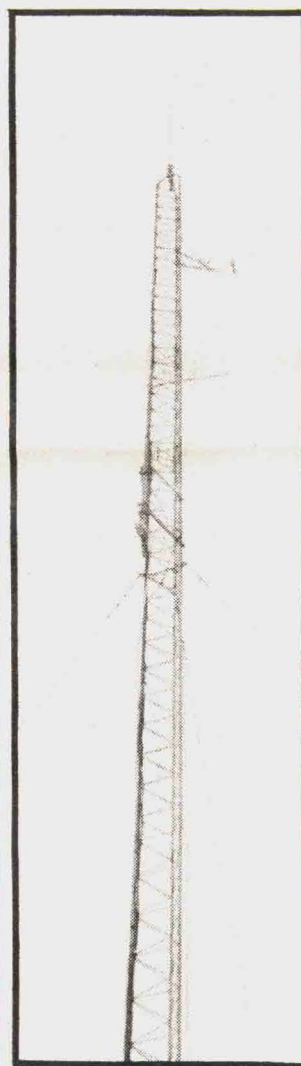
Incumbent officers reelected are: President Larry Price, W4RA; First Vice President, Jay Holladay, W6EJJ; International Affairs Vice President, Tod Olson, KØTO; Executive Vice President, Dave Sumner, K1ZZ; Secretary, Perry Williams, W1UED; and Treasurer, James McCobb Jr., K1LLU. Newly elected as additional Vice Presidents were George Wilson, W4OYL, and Clyde Hurlbert, W5CH.

Elected to the Executive Committee were Directors Tom Frenaye, K1KI, Paul Grauer, WØFIR, Leonard Nathanson, W8RC, and Rodney Stafford, KB6ZV.

The Board adopted the recommendations of the DX Advisory Committee to continue the present DXCC program, with the addition of endorsable single band DXCC awards for 80, 40, and 10

(Please turn to page 14)

## 443.675 MHz from Fitchburg



Pat Davis, KD9UU, Madison, is shown above with his UHF repeater, which is located in Fitchburg, just south of Madison. The antenna for KD9UU/R is on the tower at left; it is the first antenna down the tower from the top. This repeater has a number of unique features and facilities. Find out more in "Repeater Profiles" on page 9 of this issue; story and photos by John W. Frank, WB9TQG.

## 1988 Wisconsin QSO Party

1800Z March 20 — 0100Z March 21

Rules and summary sheet on pages 11, 12

Open to ALL stations

SPONSORED BY THE WEST ALLIS RADIO AMATEUR CLUB

### ON THE INSIDE

The Test Point-----	3
Wisconsin Nets Association-----	4
Riverland Amateur Radio Club-----	6
1988 F A R Scholarships-----	9
How to Accept an Award-----	7
New Products-----	10
1988 Dayton ARA Scholarships-----	11
RF/Cancer, Maxim Nominees Sought, Another 220 MHz Threat-----	13
Rock River Radio Club Old Timers--	14
New Wisconsin Scholarships-----	15
The Wisconsin Packeteer-----	16, 17
Eau Claire Amateur Radio Club-----	19
Yellow Thunder Amateur Radio Club--	19





## Officers and Staff:

**CHAIRMAN**  
Kenneth A. Ebner, K9EN  
822 Wauona Trail  
Portage, Wisconsin 53901  
(608) 742-3560

**EDITOR**  
Jim Romelfanger, K9ZZ  
412 1/2 Ash Street  
Baraboo, Wisconsin 53913  
(608) 356-4249

**TREASURER**  
Jim Decker, WB9UQT  
P.O. Box 337  
Baraboo, Wisconsin 53913

**ADVERTISING MANAGER**  
Harry Westlund, K9EHJ  
720 Jefferson Street  
Baraboo, Wisconsin 53913  
(608) 356-6836

## SUBSCRIPTIONS

1 year	(12 issues)	\$7.50
2 years	(24 issues)	\$14.00
3 years	(36 issues)	\$20.00

ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebner, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS OR INQUIRIES REGARDING DISPLAY ADS should be directed to Harry Westlund, address above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

Permission is hereby granted to reprint items from BSSS, providing credit is given to the original author, publication in which the item first appeared, and to Badger State Smoke Signals. This paper is mailed from Portage WI 53901. This paper is produced by Amateurs for Amateurs. It is all volunteer and non-profit.

## EDITORIAL DISCLAIMER

The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or any other organization.

## Swapfests and other Social Events

SATURDAY, MARCH 5, 1988. Fifth Annual Swapfest, sponsored by W9HHX, Milwaukee School of Engineering ARC. 1121 N. Milwaukee St., RWJ Hall. Admission, \$2.00. Table \$3.00. SASE To W9HHX Swapfest, P.O. Box 644, Room C-6, Milwaukee, WI. 53201-0644.

SATURDAY, MARCH 12, 1988. Fox Cities Amateur Radio Club, Swapfest "88". Appleton High School - East, 2121 Emmers Drive, Appleton, WI. Amateur Radio Examinations (see test point). \$1.00 admission charge, Tables \$5.00. SASE to Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI 54130. (414) 766-3886. (see ad this issue.)

The WISCONSIN QSO PARTY will be held MARCH 20, 1988. Watch Badger State Smoke Signals for further details.

SUNDAY, MARCH 27, 1988. Hamfest, sponsored by the Tri-County ARC. Jefferson County Fairgrounds, Jefferson, WI. Amateur Radio Examinations (see Test Point). Admission: \$2.50 advance, \$3.00 at door. Tables: \$3.00 advance, \$4.00 at door. SASE to Tri-County ARC, P.O. Box 321 Milton, WI 53563-0321. (see ad this issue.)

SUNDAY, April 10, 1988. 16th Annual Madison Swapfest. Sponsored by Madison Area Repeater Association. Dane County Expo Center, Forum Bldg. Admission: \$2.75 advance, \$3.00 at door. Tables: \$7.00 advance, \$8.00 at door. Contact: MARA, Box 3403 Madison, WI 53704. (608) 274-5153. See ad with more details and map from this Badger State Booster.

APRIL 29 - MAY 1 - DAYTON HAMVENTION. This is the largest hamfest in the world. See QST and other publications, or SASE to Box 2205, Dayton, Ohio, 45401.

SATURDAY, MAY 7, 1988. Tenth Annual Cedarburg, WI Swapfest. Sponsored by the Ozaukee Radio Club. Circle B Recreation Center, Intersection of Highway 60 and County I. Amateur Radio Examinations (see test point). Admission: \$2.00 advance, \$3.00 at the door. Tables: \$3.00. SASE to O.R.C. Swapfest committee, 101 East Clay St, Saukville, WI 53080.

SATURDAY MAY 15, 1988. Tri-County Hamfest (Sheboygan, Manitowoc & Calumet Ctys.) Manitowoc County Expo, Intersection of hwy 42-151 and I43 on County Hwy R. Follow signs to center. Amateur Radio Examinations given (see Test Point). Admission: \$2.00 advance, \$3.00 at the door. Tables: \$3.00. SASE to Mancorad Radio Club, P.O. Box 204, Manitowoc, WI 54220. See ad with more details and map.

SATURDAY, JULY 9, 1988. Swapfest "88". American Legion Post 434, Oak Creek, WI. Sponsored by the South Milwaukee ARC. Amateur Radio Examinations given (see test point). Tickets: \$3.00. Watch BSSS for ad with more details and map from this Badger State Booster.

## Club Meetings

**BADGER AMATEUR RADIO SOCIETY**  
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)  
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

**CENTRAL WISCONSIN RADIO AMATEURS, LTD.**  
(STEVENS POINT)  
Second Wednesday.

**EAU CLAIRE AMATEUR RADIO CLUB**  
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

**FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)**  
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

**FOX CITIES AMATEUR RADIO CLUB**  
Third Monday - 7:00 p.m. - Roosevelt Jr. High

School, 318 E. Brewster St., Appleton. Info: (414) 735-6294. Winter Banquet, January 23, 1988. Contact KA9MPP.

**GREEN BAY MIKE AND KEY CLUB**  
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

**GREEN FOX AMATEUR RADIO CLUB**  
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

**KETTLE MORAINES RADIO AMATEURS**  
Second Friday.

**MANITOWOC COUNTY RADIO AMATEURS**  
First Wednesday - 7:00 p.m. - City Hall, 817 Franklin St., Manitowoc.  
Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

**MENOMONEE FALLS AMATEUR RADIO CLUB**  
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

**MILWAUKEE RADIO AMATEURS CLUB**  
Second Thursday - Wauwatosa Savings and Loan, 7500 W. State St.

**OZAUKEE RADIO CLUB**  
Second Wednesday - 7:30 p.m. - Saukville Community Center.

**RIVERLAND AMATEUR RADIO CLUB**  
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

**ROCK RIVER RADIO CLUB**  
First Tuesday - 8:00 p.m. - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI.

**SHEBOYGAN COUNTY AMATEUR RADIO CLUB**  
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

**SOUTHEAST WISCONSIN CHAPTER #162 QCWA**  
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids, Drive, Racine.

**SOUTH MILWAUKEE AMATEUR RADIO CLUB**  
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

**TRI-COUNTY AMATEUR RADIO CLUB**  
Meetings are held at 7:00 p.m., the second Sunday of each month at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

**WEST ALLIS RADIO AMATEURS CLUB**  
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

**WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)**  
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

**YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)**  
Days rotate: 1988 meeting dates: Wed., Mar. 16, Thu., Apr. 14, Mon., May 16, Tue., Jun. 14, Wed., Jul. 13, Thu., Aug 11, Mon., Sep. 19, Tue., Oct. 11, Wed., Nov. 16, Thu., Dec. 15. Monday meetings in room 10 of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

# The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

March 10, 1988	Onalaska, WI
March 12, 1988	Bloomington, MN
March 12, 1988	Appleton, WI
March 19, 1988	St. Paul, MN
March 19, 1988	Milwaukee, WI (MRAC)
March 19, 1988	Menomonie, WI
March 19, 1988	Ft. Myers, FL
March 26, 1988	Wisconsin Rapids, WI
March 27, 1988	Jefferson, WI (BE)
April 9, 1988	Madison, WI
April 16, 1988	Milwaukee, WI (BE)
April 16, 1988	Eau Claire, WI
May 7, 1988	Cedarburg, WI (BE)
May 14, 1988	Manitowoc, WI
May 14, 1988	Rhineland, WI
June 16, 1988	Onalaska, WI
June 18, 1988	Menomonie, WI
June 19, 1988	Stevens Point, WI
July 8, 1988	Eau Claire, WI
July 9, 1988	South Milwaukee, WI (BE)
July 9, 1988	Eau Claire, WI
August 13, 1988	Rhineland, WI
September 24, 1988	Wisconsin Rapids, WI
October 15, 1988	Eau Claire, WI
November 12, 1988	Menomonie, WI
November 12, 1988	Rhineland, WI
December 3, 1988	Stevens Point, WI
March 18, 1989	Menomonie, WI
June 17, 1989	Menomonie, WI
November 11, 1989	Menomonie, WI
Monthly, First Sat.	Racine, WI
Monthly, Third Sat.	Loves Park, IL

## GENERAL RULES FOR MOST EXAMINATIONS:

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.55 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

## MILWAUKEE METRO AREA TEST TEAM - MRAC/VEC (MRAC)

March 19, 1988

Tests are given at 9:00 AM in room 256, Wauwatosa East High School at 74th and Milwaukee Ave. Use the east (74th St.) entrance.

Bring your original license and 3 good photocopies, a pen, and \$4.55 for the exam fee. Walk-ins accommodated if time permits.

Register in advance on a Postal Service 14 cent postcard; print the grade of license you are applying for, your name, address, and telephone

number. Send to: The Milwaukee Radio Amateurs Club, Inc., N50 W16328 Pin Oak Court, Menomonie Falls WI 53051.

## BADGER EXAMINERS (BE) - MILWAUKEE

March 27 (at Jefferson Swapfest - 10:30 a.m.)

April 16

May 7 (at Ozaukee Club Swapfest in Cedarburg - 9:00 a.m.)

July 9 (South Milwaukee Swapfest)

Unless otherwise noted, examinations are administered from 1 to 4 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Bring your original license, a good photocopy of it, and a second form of ID. Walk-ins are welcome. Technician license holders must bring proof of testing prior to March 21, 1987 to upgrade to General with code test only. Advance registration: send post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and phone number to Badger Examiners, Mickey Dolgin, KB9G, 507 E. Spooner Rd., Fox Point WI 53217 (414) 351-5311.

## APPLETON, WI

March 12, 1988 - Fox Cities Swapfest

Contact: Larry Siebers, KD9IA

7077 Weyers Rd.

Freedom, WI 54130

(414) 788-3823

## MANITOWOC, WI

April 14 - Hamfest

Contact: Mancorad Radzio Club

P.O. Box 204

Manitowoc, WI 45220

## ONALASKA, WI

Thursday, March 10, 1988

Thursday, June 16, 1988

Both exams will be at the Onalaska Community Center, 515 Quincy Street, Onalaska, WI 54601. Reservation recommended. Contact Rick Williams, KV9U, 524 Troy Street, Onalaska, WI 54650, phone (608) 783-8028. Walk-ins accepted but no guarantee of exam availability.

## STEVENS POINT, Wisconsin

June 19 and December 3, 1988

By Central Wisconsin Radio Amateurs, Ltd. Contact Joseph W. Larson, N9JW, 644 Portage St., Stevens Point, WI 54481. (715) 344-1182.

## WISCONSIN RAPIDS, WI - ARRL/VEC

March 26 and September 24, 1988

March 26, 1988 - 9 a.m. at Mid-State Technical College, 500 32nd Street North, Wisconsin Rapids. Talkin on 145.29 repeater. Walk-ins accepted. Contact Eugene R. Santoski, K9UTQ, 1220 18th Street South, Wisconsin Rapids, WI 54494. (715) 423-6368.

## EAU CLAIRE, WI - W5YI/VEC

9:00 A.M. to Noon, except July 8, 1988, 6:00 P.M. to 9:00 P.M. Exams are given at the University of Wisconsin Facilities Management Building in Eau Claire, except that the July exams are given in conjunction with the Eau Claire Amateur Radio Hamfest. There is no pre-registration requirement. Contact: Carl Searing, W9NW, 1129 McKinley Road, Eau Claire, WI 54703. (715) 834-1303.

## MENOMONIE, WI

Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, KD9TT, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (O); 235-5757 (H).

## MADISON, WISCONSIN

Four Lakes ARC (ARRL/VEC)

April 9, 1988

Fire Station #2, at 421 Grand Canyon Dr. They start at 8:00 a.m. sharp.

## RHINELANDER, WISCONSIN

May, 14, 1988

August 13, 1988 (Rhineland Swapfest)

November 12, 1988.

All except August will be held at Nicolet College Science Center in the Fireside Room starting at 9:00 a.m. All sessions held at Nicolet College will be by appointment only. Registration required thirty days in advance of testing session, with check payable to "DeVry VEC" for \$4.55. Only Technician class and above will be given at the testing sessions.

August 13th testing session will be conducted at the Rhineland Swapfest, corner of Chippewa Dr. and Co. Hwy. CC in the Rhineland Ice Association Ice Arena. Walk-ins will be accepted at the swapfest. Registration on the hour from 9:00 a.m. till 12:00 noon.

Novice tests will be given by appointment at any time except at regular scheduled testing sessions.

Contact: Leonard Bauman St., K9RMN, 1312 Dorothy St., Rhineland, WI 54501. (715) 369-3296.

## RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays. Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins are permitted. Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

## Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves(Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

## FORT MYERS, FLORIDA (ARRL/VEC)

March 19, 1988

Combine a Florida vacation with an upgrade exam - the best of two worlds! Contact Bob Strathy, WV4F, 5428 Brandy Circle SW, Fort Myers FL 33919. (813) 481-4880.

## Minnesota Tests. Contact:

Amateur Radio Association of Bloomington, Art Putt, 881-7187.

St. Paul Radio Club, Jay Bellows, 222-7253.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

# Wisconsin Nets Association Ltd.

## WISCONSIN NETS

NET	WNA	FREQ	UTC	CST	MANAGER
BWN	YES	3984	1200Z	0600	WD9IID
BEN	YES	3985	1810Z	1200	KA9RII
WSBN	YES	3985	2330Z	1730	WB9ESM
WNN	YES	3723	0000Z	1800	N9DGL
WSSN	YES	3645	0030Z	1830	N9BDL
WIN-E	YES	3662	0100Z	1900	WB9ICH
WIN-L	YES	3662	0400Z	2200	KC9CJ
NWTN	YES	34/94	0030Z	1830	KA9VII
GR.BAY	NO	72/12	0245Z	2045	WB9NRK
			THU	WED	

RACES NO 3993.5 1815Z 1215 WC9AAG  
USB TUE. & THUR.

RACES NO 3993.5 1400Z 0800 WA9OAY  
LSB SUN.

## Section Manager's notes



Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee WI 53221

April 1st is the nominations deadline for ARRL Instructor of the Year and ARRL Professional Teacher of the Year awards.

April 9th at 8:00 a.m., Madison area exams by Four Lakes ARC, 421 Grand Canyon Drive, N9ADN.

April 10th at 8:00 a.m., Madison Swapfest, Madison Area Repeater Association, W9HSY.

April 16th from 1 to 4 p.m., Milwaukee area exams by Badger Examiners, 5333 North Green Bay Avenue, KB9G.

April 16th from 6 to 9 p.m., Eau Claire area exams, U.W. Management Building, W9NW.

April 29th to May 1st, Dayton Hamfest.

New officers Ozaukee RC: Pres. WA9JMS, V. Pres. WA9JOB, Sec. AA9W, Treas. KA9DDN.

WA9JMS of Cedarburg suggests that radio club leaders should "Keep business portion of meetings short, let members spend more time together talking, learn from each other, welcome newcomers, and share enthusiasm of the hobby."

Taylor County ARC new officers: Pres. W9LEE, Sec. N9ZD, Treas. WD9FWP.

Informative net on Saturdays, 10 a.m., 3985 KHz SSB, with help and tips about Wisconsin packet radio, K9ANV NCS.

KZ90 gave Green Bay Mike and Key Club doubly interesting program - showing a video tape he made of his W1AW tour to those at the club meeting by sending it over his Amateur Television (ATV) setup.

D9RN 211 MESSAGES 62 SESSIONS WISCONSIN REPRESENTED 100 PERCENT BY KA9RII N9BGE KA9VII KA9USV W9CBE K9FHI N9GJI KC9CJ - NN9M.

CAND REPORT FOR JANUARY 1988 X 447 MESSAGES IN 31 SESSIONS DRN9 REPRESENTED 100 PERCENT X WISCONSIN STATIONS KA9RII W9CBE KA9VII N9BGE X 73 - WB5YDD.

-----  
Gene Santoski, K9UTQ  
Section Traffic Manager  
Wisconsin Section ARRL  
1220 18th St. So.  
Wisconsin Rapids, WI 54494  
-----

## TRAFFIC TOPIX

It's time once again for some informational tidbits @regarding various aspects of traffic handling in Wisconsin.

First of all, I want to take this opportunity to wish all you readers all the best in 1988. I do hope that it proves to be a very healthy and prosperous year for all of you.

If you are a net manager one of your responsibilities of that position is to provide an article four times a year in the Badger State Smoke Signals. If you don't know which month that your net article is due to be published, please contact me as I have a complete schedule of who is to submit for what month. All we are looking for is a few paragraphs of information regarding your particular net for which you are manager. Things like mentioning of new Net Controls you have acquired, traffic statistics for past four months etc. It is also a good vehicle for you to voice your opinions and present your gripes about the operation of your nets. So lets try to make a concerted effort to get your material to the editor in plenty of time for publication in the month your report is due. If you have any questions regarding this please don't hesitate to contact me.

While on the subject of responsibilities, you Net Mangers be sure to get your monthly net tallies to me as soon as possible. I need them to compile a summary for ARRL Headquarters. Keep after your NCS stations to get their daily stats to you so you don't have to wait till the end of the month to hound them. You who are NCSs have a responsibility to get those net reports to your Net manager ASAP.

Any of you who old appointments for Net Manager and/or Official Relay Station have to report your Monthly Station Activity (SAR) to me each month. This is very important and I don't think I am asking too much. Please comply with this as it is a requirement of your appointment. Also, an SAR should be sent to the STM - Rich Regent, K9GDF.

There is a new individual cracking the whip on the Northwoods Traffic Net these days. As of January 1st, Greg Garner, KA9VII has taken over the duties as Net Manager. He succeeds W9ZZM who held the position for a year. I want to thank Bill for the fine job he did as NM of NWTN. He was always prompt with his monthly net reports and was an excellent example of a top notch Net Manager. He ran a tight ship and the monthly stats show it very clearly.

I hope that by the time you Net Mangers read this that you will have received your Annual Net Summary and Activity Graphs showing how your net did compared to other years. Some of these reports are not accurate because they are not complete because I didn't get your monthly reports. If you have any questions regarding the net data sent you please get in contact with me.

If you NMs need a supply of monthly reporting forms, please let me know and I will mail some off to you. A couple of you are generating your own computer forms which is fine

with me as long as they conform with the format that I have laid out. Also, if you need a supply of renewal stickers, contact ARRL headquarters and they will send you some. You need them for basic member renewal as well as NCS and Liaison endorsements. Speaking of renewals, take a look at your Net Manager certificate. If the latest renewal was two years ago, you are due for another one. Let me know.

I do hope that all of you have been reading the "Universal Traffic Queries" each month. It provides a good review of net operations for those of us who like to think we are experts. There is always something new to learn.

I attended a meeting of the Wisconsin Amateur Packet Radio Assn meeting which was held in conjunction with the Waukesha Swapfest on January 9th. I presented a brief statement about the need for packet radio in traffic handling and that it is a great way to move traffic accurately. The SYSOPS of the various Bulletin Boards assured those present that by moving traffic through their PBBS systems that they were in no way trying to compete with or obliterate the National Traffic System. On the contrary, their intention is to supplement and enhance the NTS by providing another avenue by which to handle traffic. By utilizing the many PBBS facilities throughout the state, traffic can be place on one bulletin board and auto-forwarded to just about anywhere in the country!! And best of all, ERROR FREE!!! A word of advice is in order though.

If you log on to a PBBS and see traffic for yourself or someplace that you can deliver it to, by all means download it and then KILL IT. It is very very important that you kill any traffic that you extract from a bulletin board. In that way, there is no chance of someone else logging on and picking up the same piece of traffic with the end result of it being delivered twice - or more!! So please, please kill all NTS messages addressed to you or that you download to handle on other circuits. It is just a simple act of typing "KM" and common sense. THIS IS VERY IMPORTANT!!

To place a private message on a bulletin board to another station just follow this simple procedure:

Type "SP (send private)  
SPACE  
Type "CALL of STATION YOU ARE SENDING IT TO"  
SPACE  
Type "@"  
SPACE  
TYPE KD9NV

For example, to send a message to me you would proceed as follows:

SP K9UTQ @ KD9NV.

The message would be auto-forwarded from your nearest PBBS station to KD9NV PBBS. When I log on to KD9NV it would tell me that I have a message waiting. I then simply download the traffic and KILL it. That's all there is to it.

To send a message to Aunt Millie in California you enter:

ST 67403 @ NTSWI

The bulletin board will then ask you for a  
(continued on page 18)

## SOUTHWESTERN BELL TO CHARGE REPEATERS RESIDENTIAL RATES

Gene Demuth, W5FJD, of Fredricksburg, Texas recently obtained a favorable ruling from the Texas Public Utilities Commission (PUC) requiring GTE and Southwestern Bell to downgrade the telephone service charges for ham phone patch lines from commercial to residential rates.

Since the ruling, amateur repeater associations have been requesting rate changes from their telephone companies. Big Spring Amateur Radio Club of Snyder, Texas and Caprock Repeater Club of Lubbock, Texas, were also granted a residential rate and received over \$1000 in refunds for past overcharges.

The rulings mentioned apply only to Texas, but watch for updates as other amateur repeater groups approach their local phone companies. If your repeater Association is paying commercial rates for your repeater patch lines, you may wish to contact your local telephone company and request residential rates.

- From The ARRL Letter

## MADISON DX CLUB CHOOSES 1988 OFFICERS

The Madison DX Club's 1988 officers are:

President - Joel Kupferberg, N9CPW  
Vice-President - Frank Holliday, WB9NOV  
Secretary/Treasurer - Ken Trachte, N9ADN

(Thanks Joel Kupferberg, N9CPW)

## FOR SALE

Heath HW-16 CW transceiver, \$50.00.  
Heath HG-10B VFO, \$10.00.  
Heath HW-101 CW/SSB transceiver, \$125.00.  
Heath HP-23A power supply, \$50.00.

Prices negotiable. Phil Anderson, W9TP, 624 14th Street, Baraboo WI 53913. (608) 356-3471.

## 10 KW CB AMPLIFIER SEIZED

On December 4, after conducting a lengthy investigation, the FCC Atlanta Office along with the US Marshall's Service, seized an estimated \$10,000 worth of electronic equipment, including a 10-KW linear amplifier, from the residence of Althur Ford, in Ellenwood, GA, according to an FCC Public Notice.

The use of this equipment is prohibited under section 301 of the Communications Act, and FCC Part 95. Penalties include fines of up to \$100,000 and imprisonment. This is part of a program by the FCC to curtail operation of illegal CB equipment.

(From The ARRL Letter)

## Rusprint Supplying Amateur Radio Operators With QSL Cards Since 1956

Write today for free samples. Self-Addressed-Stamped Envelope appreciated but not required.

Rusprint, Rt 1, Box 363-BSS, Spring Hill, KS 66083

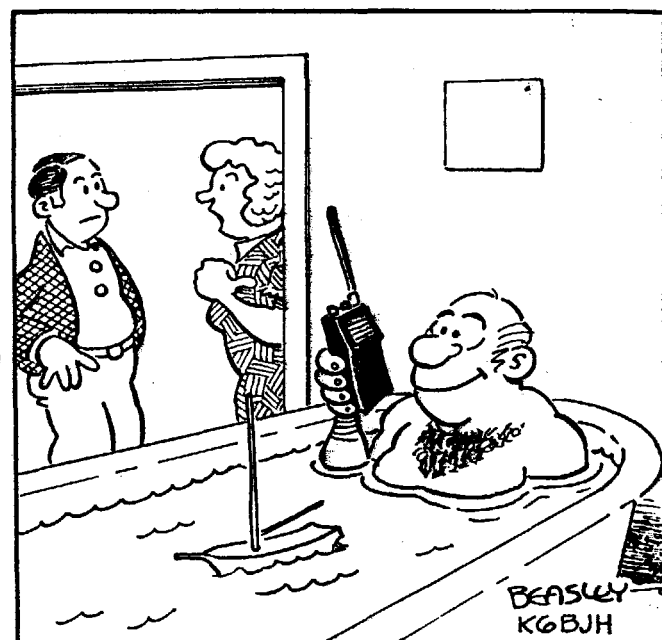
## Standard Communications

Mobile Phones, 2-Way Radios, and Pagers

## KLINKNER ELECTRONICS

William G. Klinkner

246 Monroe Street Sauk City, WI 53583  
Phone (608) 643-6908



IF YOU'RE LOOKING FOR CHARLIE, HE'S IN THERE OPERATING MARITIME MOBILE!

## TRI-COUNTY HAMFEST

SHEBOYGAN CITY MANITOWOC CALUMET  
220 REPT ASSOC. MANCORAD

## MANITOWOC COUNTY EXPO

INTERSECTION OF HWYS 42-151 AND 143 ON  
COUNTY HWY R FOLLOW SIGNS TO CENTER.

**SATURDAY MAY 14, 1988**  
**DOORS OPEN AT 8 A.M.**  
**VENDORS AT 7 A.M.**

## FCC. EXAM'S

ADVANCE TICKET \$2.00

AT THE DOOR \$3.00

TABLES 8 FOOT \$3.00

ELECTRIC OUTLET IF  
AVAILABLE \$5.00

## REFRESHMENTS

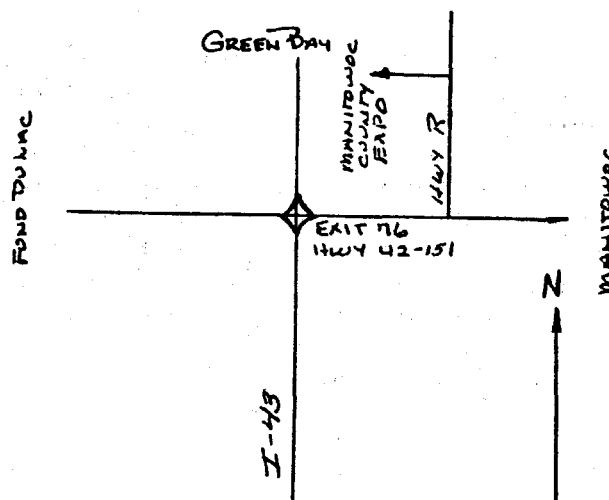
## PRIZES

## RESERVATIONS TO:

MANCORAD RADIO CLUB  
P.O. BOX 204  
MANITOWOC, WI. 54220

NAME: \_\_\_\_\_  
STREET: \_\_\_\_\_  
CITY: \_\_\_\_\_  
STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

ADMISSION  
RESERVED TABLES  
ELECTRICAL OUTLET  
IF AVAILABLE  
S.A.S.E. PLEASE  
FCC. EXAM. PRE-  
REGISTRATION MUST  
BE RECEIVED BY  
APRIL 14, 1988







The February meeting of the Riverland Amateur Radio Club was called to order at 7:30 p.m. by President Gary Webb, NI9V. The minutes of the last meeting were accepted as published in the BSSS.

#### TREASURER'S REPORT

Sec.-Treas. Dick, KØJYB, reported sums of \$404.56 in the checking acc't., and \$296.92 in the regular savings acc't. The new repeater account has a total of \$550.00, for a sum total of \$1,251.58.

#### 37/97 REPORT

Van, WA9FIO, encouraged people to donate to the repeater fund. When the fund reaches the \$1000 level, we could possibly borrow \$1000.00 from a bank for a two year term. We could find a commercial rig and modify it, or purchase or get a

new Ham rig. The present final amplifier is sick and will be removed. Van emphasized that a good controller is important, and we will need input as to which direction to go.

#### JACKETS

No report.

#### CHRISTMAS PARTY

The Ham of the Year Award was presented to Greg Miller, KA9FOZ. Dick, KØJYB, presented pictures of the party. (Editor's note: See the photos below.)

#### OLD BUSINESS

A motion was made by Rick, KV9U, to change the quorum rule to 20% of the paid up members present at a meeting. The motion was seconded by Gary, NI9V, and carried.

An election was held, and Craig, N9ETD, is our new President, Mike Tessmer our new Vice President, and Greg, KA9FOZ, our new Secretary-Treasurer.

#### AWARDS MANAGER

Steve Pavella, KD9TR, will be our new awards manager. Being a Special Service Club allows us to have an Awards Manager to review QSL cards, etc., for ARRL awards, thus eliminating having to send the cards to ARRL Headquarters.

#### TOWER PROBLEM

No action has been taken by the County Board, nothing has been heard, and it is possible that the matter has been dropped, although a problem may still exist unless we have certain regulations reworted or rewritten.

#### HAM RADIO CLASSES

A discussion was held regarding the possibility of contacting the Boy Scouts, Girl Scouts and the Sea Scouts to see if they are interested in attending Novice Radio classes. Charlie, KA9UUK, will contact the leaders to see if there is any interest.

Meeting adjourned at 8:25 p.m.

#### NOTE

At the end of the meeting, several members paid their annual dues, and we received more contributions for the repeater fund. The total is now \$655.00. Have you ever heard of "TINSTAFL"? "There is no such thing as a free lunch," meaning that if you use the repeater, you gotta pay for it. The old one is sick, and needs replacement.

Submitted by PAST Sec.-Treas.

Dick, KØJYB

#### RIVERLAND AMATEUR RADIO CLUB CHRISTMAS PARTY — NOB HILL — JANUARY 16, 1988 — PHOTOS BY DICK LOW, KØJYB



## How to Accept an Award

By Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee WI 53221

You think accepting an award is as easy as rolling off a log? It can be, provided you're not out on a limb and at a loss for what to say when you're accepting the honor. Knowing the basic steps to accepting an award can definitely help.

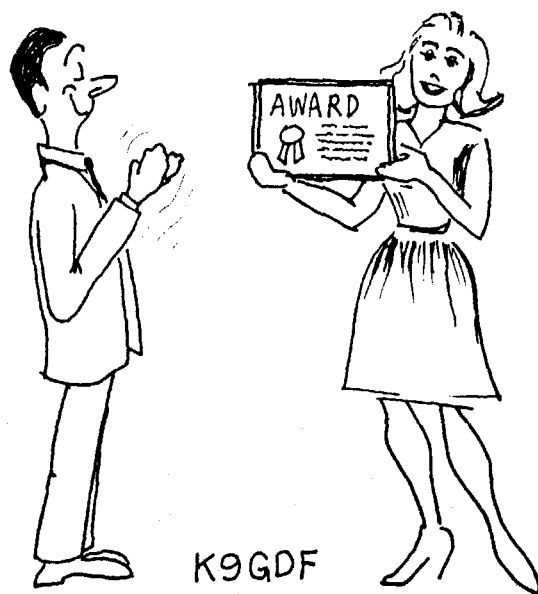
First, what is it like to win an award? Let's say you're at a club meeting one evening. The Club President holds up a beautiful sparkling award and begins a short speech. "...tonight we honor a hard working Radio Amateur for tremendous volunteer efforts given to the club goals and accomplishments in furthering our hobby during the past year. Please join me in congratulating our Amateur of the Year.." Suddenly, you realize it's your name and call the President is announcing. YOU'VE won the award! Your friends and fellow club members begin applauding, maybe even honoring you with a standing ovation. What happens next is up to you.

Now what should you do? This part is easy, we've seen it done before. The applause is your cue to move into position to receive the award. The presenter will shake your hand, say "Congratulations!", and then hand you the award.

Next comes the difficult part. What do you say? There are four very simple steps to accepting an award. You can easily remember them because they're like a sandwich: two slices of "thanks" with "credits" and "use" in between. Here they are:

1. SAY THANKS - Express your sincere appreciation for the award. Saying a simple "thanks" or something equivalent is usually adequate. In this case you might say, "Thanks for selecting me as the Amateur of the Year."

2. GIVE CREDIT TO THE PEOPLE - Praise the positive help and cooperation of the group or person who made the award possible. Briefly mention some favorable points of the group, those that influenced you to achieve your goal, or how winning the award has a great deal of meaning to you.



3. DESCRIBE HOW YOU WILL USE THE AWARD - Describe a few brief details of how you will use or display the award. If you can't wait to show others the award, whether they are neighbors, friends, relatives, people you work with, or members of other groups, now is the time to tell the story. If there is a special spot on your shack wall where the award will look just great, mention it.

4. SAY THANKS AGAIN - Quickly review your appreciation with a memorable statement and then say "thanks" again.

Besides these four steps, there are a few "dos" and "dont's" to keep in mind when accepting an award. Do:

1. Act surprised if you didn't know you were winning the award; the group will love you for your honesty and spontaneity.
2. If the award is informal, be brief when you talk, a few words are enough.
3. If the award is formal or very significant, give some detail of your philosophy or attitude which may have helped you to be selected.

On the other hand, don't:

1. Use a different style, manner, or mood than the presentation speech.
2. Use humor, unless you're certain it's appropriate.
3. Make a major oration or change the subject.
4. Worry about this speech.

Finally, receiving an award can be a most gratifying experience. You'll feel warm and bubbly all over. When you accept an award in front of a group of people, it's also your big chance to give thanks and credit to those who made the award possible and selected you to win. Putting some finishing touches on your acceptance speech will reassure your friends that they chose the right person for the award. You'll probably also get another round of well deserved applause.

## VIKING EXPRESS II

- \*OPEN 24 HOURS EVERYDAY
- \*GAS - CONVENIENCE STORE
- \*VIDEO'S - VCR'S - VIDEO CAMERAS
- \*BEER - WINE - LIQUOR

818 8th St., Hwy. 33, Ringling Boulevard  
356-6969 BARABOO 356-7373

WE BUY • SELL • TRADE • CONSIGN  
**USED GEAR IS OUR BUSINESS**

WRITE:

TONY MUSERO  
K3UKW  
1609 SO. ISEMINGER ST  
PHILA., PA. 19148

"purchase with confidence"  
CERTIFICATE OF CONDITION • EACH SALE  
SEND S.A.S.E FOR UP-TO-DATE LIST.  
IF YOU HAVE SOMETHING TO GET RID OF!  
LET US KNOW. • call or write NOW.

CALL 215-271-8898

**16th  
Annual**

# MADISON SWAPFEST

*Madison, Wis.*

Sponsored by Madison Area Repeater Association - WB9AER - Madison, Wis.

**DANE COUNTY EXPO CENTER FORUM BLDG.**

LOCATION MAP ON REVERSE SIDE - TALK - IN ON 16 - 76

**Doors Open at 8 A.M. - Sun., April 10, 1988**

BOOTH EXHIBITORS & FLEA MARKET SELLERS WITH 6 OR MORE TABLES AT 3 A.M.

ALL OTHER SELLERS ADMITTED AT 7:30 A.M.

ELECTRONIC EQUIP. & COMPONENTS FOR HAMS, COMPUTER HOBBYISTS & EXPERIMENTERS

INCLUDING  **R&L ELECTRONICS** 575 main st.  
**HAMILTON! OHIO** 45013 1-800 221-7735  
**YAESU**  **KENWOOD**  **ICOM**  
*The radio.*

DELICIOUS SANDWICHES - DONUTS - ROLLS - COFFEE - POP - MILK

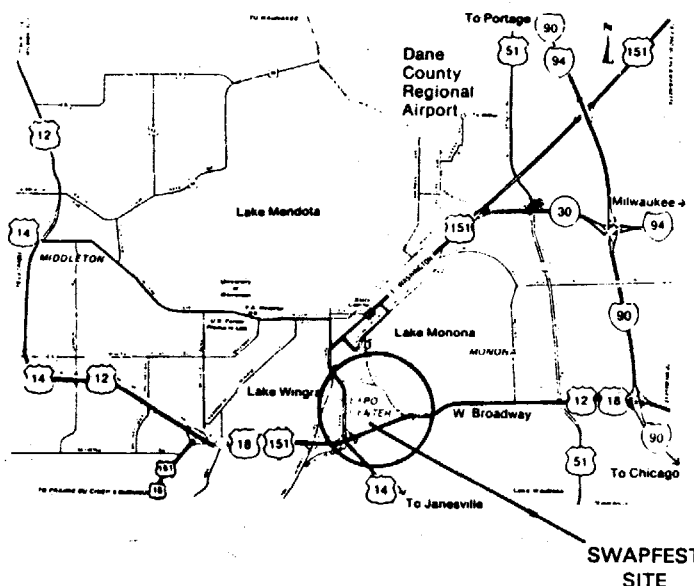
ADMISSION PER PERSON - \$2.75 ADVANCE - \$3.00 DOOR (Children 12 & Under Free)

TABLES - \$7.00 ADVANCE - \$8.00 AT DOOR - Reserve Early - Sell Out Every Year.

TABLE RESERVATIONS DO NOT INCLUDE ADMISSION PRICE - YOU MUST BUY SEPARATE ADMISSION TICKET

**WE URGE YOU TO CARPOOL AS THE COUNTY CHARGES A PARKING FEE!!!**

For Information on Exhibitor Booths Contact MARA, Box 3403, Madison, WI 53704  
Or Call (608) 274-5153 Answer Machine



**— Easy To Find —**

NEXT DOOR TO DANE  
COUNTY COLISEUM -

Approximately 6 miles west of

Hwy. 12 & 18 and I-90

Interchange. Just follow

"Coliseum" signs to Dane

County Expo Center, located

1/2 mile north of Hwy. 12 & 18

Beltline at "MC" Exit on

Madison's South Side. Talk-in on

16/76.

## ADVANCE RESERVATION COUPON

NAME \_\_\_\_\_ CALL \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLEASE SEND \_\_\_\_\_ TICKETS AT \$2.75 Per Person

PLEASE RESERVE \_\_\_\_\_ TABLES AT \$7.00 Each - Table Fee Does Not Include Admission Fee!

TOTAL AMOUNT ENCLOSED \$ \_\_\_\_\_

If there are no more tables available do you still wish to  
purchase tickets YES ( ) NO ( )

A.C. Outlets available to Booth Exhibitors ONLY.

Make Checks Payable to MARA - Mail to MARA, Box 3403, Madison, WI 53704

Ticket and Table Reservations Confirmed by Return Mail

**RESERVATIONS NOT ACCEPTED AFTER APRIL 5, 1988**

### FOUR LAKES AMATEUR RADIO CLUB ELECTS 1988 OFFICERS

The Four Lakes Amateur Radio Club, Madison, WI, recently held its annual election for 1988. The results are:

President - Scot Herrick, NB9C  
Vice-President - Joel Kupferberg, N9CPW  
Secretary - Jim Blair, KD9TC  
Treasurer - John Hicks, KA9KYB

Board Members:

Carol Kernats, NS9L  
Tony Burick, K9JWU  
Dave Reece, NO9M

(Thanks Joel Kupferberg, N9CPW)

### MENTORING

A hot topic in education these days is "mentoring." Mentors are adults with whom school age kids can form a relationship, while learning about a profession, hobby, or other area of interest. Unlike parents and teachers, they don't have to be authority figures, but can relate as peers. This is, of course, not at all new to Ham Radio; we've had our "Elmers" for a long time. I suspect I'm not alone in owing my hobby (and my profession) to a number of Hams who had time to spend with a kid who was longer on interest and questions than on experience and social grace. Maybe it's about time that you and I started to return the favor. QRV?

- Mark, WA9JMS, in  
the ORC Newsletter  
(Ozaukee Radio Club)

### DO YOU BELONG TO MENSA?

Mensa, the international high IQ society, has a special interest group for radio amateurs. For information about Mensa, contact Bob Burgermeister, WB9IJY. For information about the Amateur Radio special interest group, contact Art Candell, N4PCK.

- John Frank, WB9TQG

### Identify yourself with our custom engraved call pins

1 line 1"x3" .....\$1.00  
2 lines 1"x3" .....\$1.25  
3 lines 1 1/2"x3".....\$1.75

DAVE W2CFP  
TOMPKINS CO. ARG

Any color • (Add 20¢ per tag for postage.)

Logos for MARS, ARRL, CD, most Lodges, OH, IN, IL, MI, PA, SMIRK, can be engraved on badges for \$.75 extra per badge. Special logos can be made at a reasonable cost; write for quotations.

We now have the Wisconsin state outline

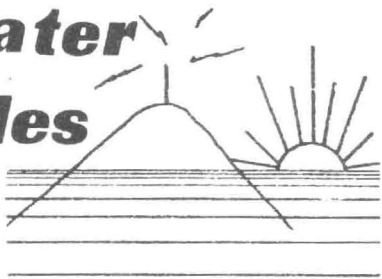
**FALLERT'S ENGRAVING**  
27 Verlynn Ave. • Hamilton, OH 45013



## Repeater Profiles



By John W. Frank, WB9TQG  
P. O. Box 5113  
Madison, WI 53705



### 443.675 MHz FROM FITCHBURG

Although the KD9UU repeater has only been on the air since the spring of 1987, it has already undergone a number of technical improvements and enhancements.

The heart of the repeater is a Yaesu repeater with an Advanced Receiver Research preamp on the receiver. The Hustler G6 antenna is side mounted on a guyed tower, and is 65 feet above the ground. This may not seem very high until you stop to consider that the base of the tower is almost 1100 feet above sea level.

Special features of the KD9UU repeater include two remote bases, autopatch, frequency agile transceivers which permit linking to other repeaters, and a program-



Joe Imilkowski, W9CWD, shows a controller card in the KD9UU repeater. A frequency agile transceiver used for cross-linking is to the right of the card.

mable timer that links this repeater to other repeaters during some of the popular repeater nets. The IDer on the KD9UU repeater has a synthesized voice and/or a CW ID.

Future plans for the KD9UU repeater include the installation of a Celwave 10 dB omnidirectional antenna, a digital voice recorder, emergency power, and more remote bases.

The KD9UU repeater operates on an output frequency of 443.675 MHz, with an input frequency of 448.675 MHz. Although it is an open repeater, it requires a sub-audible tone of 114.8 Hz (EIA standard 2A) for access.

For more information about this repeater, contact Pat Davis, KD9UU, 514 West Lakeside Street, Madison, WI 53715.

## 1988 FAR Scholarships

The Foundation for Amateur Radio, Inc., a non-profit organization with headquarters in Washington, D.C., plans to award twenty-eight scholarships for the academic year 1988-89 to assist licensed Radio Amateurs. The foundation, composed of fifty local area Amateur Radio Clubs, fully funds six of these scholarships with the income from grants and its annual Ham-fest.

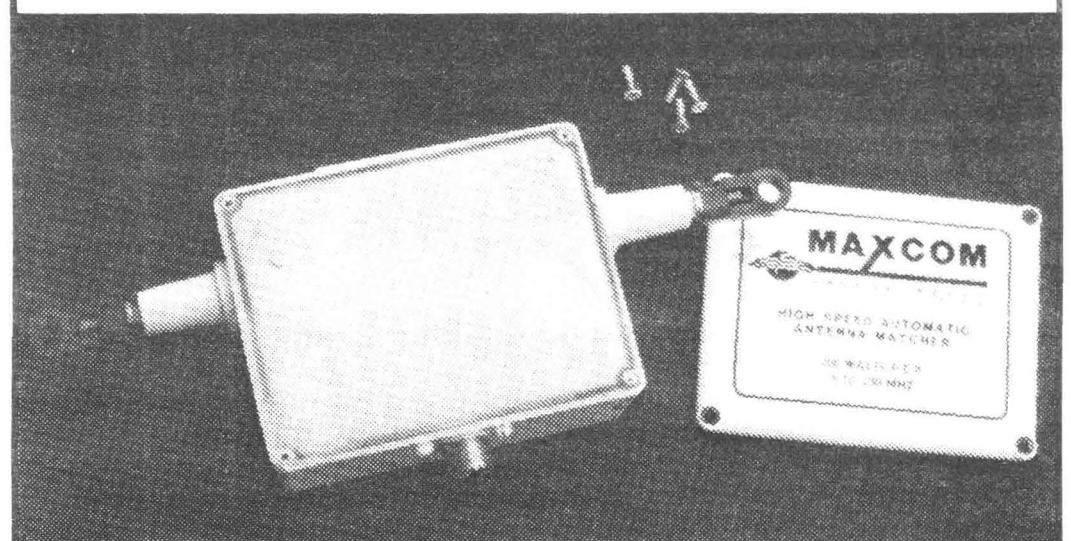
It administers, without cost to the donors, seven (7) scholarships for the Quarter Century Wireless Association, two (2) each for the Dade (FL) Radio Club, the Baltimore (MD) Amateur Radio Club, the Department of State Amateur Radio Club, the Amateur Radio News Service, the 10-10 International Net, the Radio Club of America, and one (1) each for the Richard G. Chichester Memorial, the Young Ladies' Radio League, the Columbia (MD) Amateur Radio Association, the Frederick (MD) Amateur Radio Club, and the Vienna (VA) Wireless Society.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled or have been accepted for enrollment at an accredited university, college or technical school. Some of the scholarships require the holding of at least an FCC General Class license or equivalent. The awards range from \$500 to \$2000, with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs.

Additional information and application forms can be requested by letter or QSL card, postmarked prior to May 31, 1988 from F A R Scholarships, 6903 Rhode Island Avenue, College Park, MD 20740

The Foundation for Amateur Radio, incorporated in the District of Columbia, qualifies as a non-profit organization under Section 501(c)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

## EVER WONDERED WHAT IS INSIDE A MAXCOM®?



## NOW YOU KNOW !!!

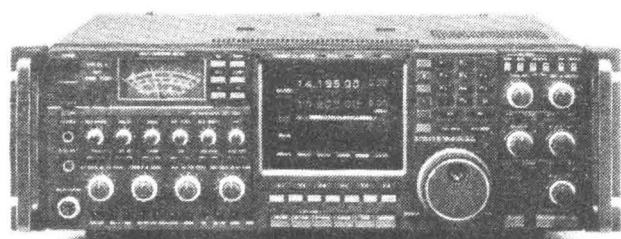
Absolutely no tuning with a MAXCOM system.  
Simply connect, dial your frequency and talk...  
That's it, just TALK.

OVER 4000 MAXCOM® STATIONS WORLD WIDE  
BOX 502, FT. LAUD., FL 33302

305-527-5172 ©

MAXCOM is a registered trademark and is owned by Maxcom Electronics, Inc.  
THE BOTTOM LINE: "MAXCOM WORKS"

## New Products



ICOM IC-781  
HF BASE STATION TRANSCEIVER

"The future of Amateur Communications" is here with the introduction of ICOM's new IC-781 HF base station transceiver. With every feature imaginable and some you wouldn't even have dreamed of, the IC-781 is the most advanced amateur radio transceiver in the world.

The IC-781 operates all modes and bands 160 to 10 meters with a band spectrum scope that displays signals in a 50/100/200 KHz range of your operating frequency. This is all indicated on the multi-function five inch CRT screen which displays frequencies, modes, memory contents, operating notes, RIT, two menu screens and includes subdisplays for Packet and RTTY.

The IC-781 also features:

**Dual Band Watch:** Simultaneously receives two frequencies in the same band. A single button activates both VFOs for dual receive, and a "balance" control varies A/B levels.

**Twin Passband Tuning** with separate controls for second and third IF stages. Increases selectivity and narrows bandwidth.

**99 Tunable Memories:** Operates like 99 last frequency remembering VFOs! Reprogram quickly or leave your permanent frequency selections in place and simply retune. All memories can be retuned, yet instantly return to the original memory channel selection. Even the original filter selections remain unchanged!

**All Wide and Narrow Filters included:** Independent selection of four filters for super DXing flexibility!

**Direct Keyboard Entry:** Don't feel like dialing in a frequency? Just program it in

on the IC-781's user friendly front panel keyboard.

**150 Watts Output**

**Built-In Power Supply:** 100% duty rated, AC supply, with super silent cooling fan.

**Dual Noise Blanker:** Includes MCF filter plus width and level controls.

**Five Multi-Function Timers:** Three on/off modes and two sleep modes; have your IC-781 warmed up and ready to go when you get home from work!

The IC-781 comes standard with everything else you can think of: Built-in high speed automatic antenna tuner, iambic keyer, semi-automatic or full QSK CW break-in to 60 WPM, Audio Peaking Filter, RF speech processor, multiscanning, 105dB dynamic range receiver that continuously tunes 100 KHz to 30 MHz, plus exceptional frequency control. It's a total communications system in one package! Scheduled availability of the IC-781 is March 1988; pricing to be announced.

(ICOM News Release)



MFJ-1278  
MULTI-MODE DATA CONTROLLER

MFJ Enterprises, Inc. announces its new MFJ-1278 Multi-Mode Data Controller that lets you work seven digital modes: Packet, ASCII, RTTY, CW, WEFAX, SSTV, and Contest Memory Keyer modes. The MFJ-1278 retails for \$249.95.

The MFJ-1278 features high performance HF/VHF/CW modems, software selectable dual radio ports, precision tuning indicator, 32K RAM, and an AC power supply.

All you need to operate the MFJ-1278 is a standard HF or VHF rig and any computer with a serial port and terminal program.

MFJ also offers a Starter Pack to get MFJ-1278 users on the air instantly. The Starter Pack includes computer interface cable, terminal software and friendly instructions. It is available for the Commodore 64/128, VIC-20 (MFJ-1282, disk; MFJ-1283, tape) and for the IBM or compatible (MFJ-1284), \$19.95 each.

The MFJ-1278 automatically sets itself to match your computer baud rate. In all modes it features printing, threshold control for varying band conditions, tune-up command, lithium battery backup, RS-232 and TTL serial ports, watch dog timer, FSK and AFSK outputs, output level control, speaker jack for both radio ports, test and calibration software, Z-80 microprocessor running at 4.9 MHz, 32K EPROM and socketed ICs. It is FCC approved and measures 9" x 1 1/2" x 9 1/2". It operates on either 12 VDC or 110 VAC.

The MFJ-1278 comes with MFJ's unsurpassed double guarantee. If ordered from MFJ, it may be returned within 30 days for a full refund, less shipping. MFJ also backs this product with a one-year unconditional guarantee.

For more information, contact MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762, or call (800) 647-1800.

(MFJ News Release)

*Traveling the*  
**HAM & EGGS**   
*= Circuit =* AND BRUNCH/LUNCH  
CQ 3RD TUESDAY

A group of Radio Amateurs, and often some wives, meet at Scanda House at Highway 100 and Oklahoma Avenue, Milwaukee, on the third Tuesday of each month, 12 months a year. The group has a reserved room, and they begin to gather around 11:00 to 11:15 a.m. It's an informal gathering for lunch, and out-of-town visitors often drop in. The gathering is known as "CQ 3rd Tuesday."

- Thanks Les Peterson, W9YCV

**WPDR 1350** **WDDC FM100**

PORTAGE, WI



- REGULAR INDIVIDUAL SUBSCRIPTION RATES -  
Please make checks or money orders payable to Badger State Smoke Signals.

1 year (12 issues): \$7.50  
2 years (24 issues) \$14.00 (save \$1.00)  
3 years (36 issues) \$20.00 (save \$2.50)

Please send check or money order to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo WI 53913.

PLEASE PRINT

0388

Name: \_\_\_\_\_ Call (if any): \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

☐ 1 year ☐ 2 years ☐ 3 years ☐ new ☐ renewal



**OUR PARTS FIX BIG PROBLEMS**

**\$\$\$\$ SUPER SAVINGS \$\$\$\$**

IC Chips, Coax Connectors, LED's Switches, Speakers, Cables, Capacitors, Mic Connectors, Microwave, Crystals, Diodes, Bridges, Pots, Resistors, Telephone, Project Boxes, Plugs, Jacks, Transistors, Regulators, Power Supplies, MOV's, ETC, ETC.....

**GET ON OUR MAILING LIST**

**SEND SELF ADDRESSED STAMPED ENVELOPE FOR 40 PAGE CATALOG**

**BCD ELECTRO**

**PO BOX 830119 RICHARDSON, TX**

**75083-0119**  
OR CALL (214) 343-1770



**DAYTON AMATEUR  
RADIO ASSOCIATION  
SCHOLARSHIP**

The Dayton Amateur Radio Association is accepting applications for its 1988 scholarship program. The program is open to any licensed amateur graduating from high school in 1988.

Awards will be based on a combination of financial need and academic achievements with consideration given for service to Amateur Radio and community involvement.

There are no restrictions on courses of study, and there is no requirement to be applying for a four-year degree; those planning on an Associate degree, or attending an accredited trade school will also be considered. The award is \$1000 toward tuition at the school of the winner's choice.

All entries must be postmarked no later than May 15, 1988, and award winners will be announced around June 1, 1988.

For information and application forms, contact: Scholarship Committee, 317 Ernst Avenue, Dayton, OH 45405.

(From The ARRL Letter)

**17-METER AMATEUR  
BAND NOT OPEN**

The 17-Meter amateur band (18.068 - 18.168 MHz) is NOT yet open to US amateurs.

Rumors were flying very fast that the FCC had opened the 17-meter band, and ARRL HQ was deluged with phone calls requesting information.

The ARRL is doing everything possible to get early access to the band, which, while available to amateurs in many countries on a not-to-interfere basis, will not become a worldwide exclusive amateur allocation until July, 1989. The ARRL has studied the current list of assignments, both international and domestic, and is attempting to identify segments that might be made available for amateur operation sooner than 1989. However, the 17-meter band is NOT available at the present time.

(From The ARRL Letter)

**IT'S THAT TIME OF THE YEAR AGAIN!**

March brings two important events: the beginning of Spring, and the Wisconsin QSO Party. The Wisconsin party is known as one of the best in the country, and Badger State Smoke Signals encourages YOUR participation. Even if you're not a contest, it's fun to give a few contacts to the gang, and you

might just be in a rare county.. making you very popular! A clipout entry form and multiplier sheet is below. Please read and follow the rules. And, please, oh please, send photos of your QSO Party operation to us here at BSSS! Good luck.. and see you on the air 1800Z March 20 thru 0100Z March 21. Please note that your entry must be postmarked by April 15, 1988.

- K9ZZ



Sponsored  
by  
West Allis Radio Amateur Club

**WISCONSIN QSO PARTY SCORE SUMMARY SHEET**



Call \_\_\_\_\_ Home WI County \_\_\_\_\_

Name \_\_\_\_\_ Club Affiliation \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip \_\_\_\_\_

ENTRY CLASS:	Single Op Fixed	<input type="checkbox"/>	Multi Op Fixed	<input type="checkbox"/>
	Single Op Mobile	<input type="checkbox"/>	Multi Op Mobile	<input type="checkbox"/>
	Single Op Novice	<input type="checkbox"/>	Multi Op Novice	<input type="checkbox"/>
	Single Op Technician	<input type="checkbox"/>	Multi Op Technician	<input type="checkbox"/>

WI Counties Worked From \_\_\_\_\_

SCORING:	CW QSOs	_____ x 2	=	_____ CW Points
	Phone QSOs	_____ x 1	=	_____ Phone Points
	Sum of CW + Phone Points		=	_____ QSO Points
	Number of Multipliers		=	_____ Multipliers
	Wis. Counties (72)	_____		
	States (50)	_____		
	Provinces (13)	_____		
	QSO Points x Multipliers		=	_____ Points
	Added Bonus Points		=	_____ Points
	Total Final Score		=	_____ Points

I have read and followed the WISCONSIN QSO PARTY RULES to the best of my knowledge.  
(All OPERATORS must sign.)

Signature(s) \_\_\_\_\_

Date \_\_\_\_\_

To qualify, entries must be postmarked by April 15, 1988. Send to: WISCONSIN QSO PARTY, WEST ALLIS RADIO AMATEUR CLUB, P. O. BOX 1072, MILWAUKEE, WI 53201. Entries may be disqualified if the QSO Party Rules are not followed. The decision of the Wisconsin QSO Party Rules Committee shall be final. To receive a copy of the official results, enclose a business size SASE with your entry.

## EXCHANGE PAPERS — PLEASE NOTE!

A few of the club papers who receive BSSS on an exchange basis are still sending their papers to my year-old address; a couple of them which did change to my new address suddenly reverted to the old one. The correct K9ZZ address is on p. 2.

COMING NEXT MONTH IN BADGER STATE SMOKE SIGNALS: Ed Rice, W9NGP, and Miss Pinchbottom play a numbers game! And, we'll have all the other usual great features and information.

GOING TO THE MARA SWAPFEST APRIL 10? Be sure to stop at the BSSS table!

A new Novice net in the Madison area, with Dave Rece, NO9M at the helm, meets on Thursday nights at 8:00 p.m. local time on 28.330 MHz upper side-band. This net provides a chance for Novices and Technicians to use their phone privileges. All checkins are welcome. For more information, contact NO9M.

Thanks Dave Rece, NO9M,  
and Tony Burik, K9JWU

## WISCONSIN QSO PARTY RULES

**DATE/TIME:** 1800Z MARCH 20 - 0100Z MARCH 21, 1988.

**MODES:** CW and Phone. All stations may be worked once per mode on each band. In addition, mobiles may be worked once per mode per county that they operate from. No Repeater QSOs Allowed.

**ENTRY CLASSES:** Single Operator - Fixed      Multi Operator - Fixed  
Single Operator - Mobile      Multi Operator - Mobile  
Single Operator - Novice      Multi Operator - Novice  
Single Operator - Technician      Multi Operator - Technician

**EXCHANGE:** Wisconsin stations send county.  
Non-Wisconsin stations send state/province.

**FREQUENCIES:** CW: 3550, 3725, 7050, 7125, 14050, 21150 (Other bands may be used).  
(Suggested) Phone: 3890, 7290, 14290, 28400.

**SCORING:** Phone contacts count 1 QSO point; CW contacts count 2 QSO points.  
WISCONSIN STATIONS: Multiply the sum of QSO points by the sum of Wisconsin counties (max 72), plus states (max 50) plus provinces (max 13).  
Note: DX countries count for QSO points but not as multipliers.  
NON-WISCONSIN STATIONS: Multiply the sum of QSO points by the number of Wisconsin counties (maximum 72).

**BONUS:** WISCONSIN MOBILES/PORTABLES: Add 500 bonus points for each county that you operate from, outside your home county, with a minimum of 15 QSOs per county to qualify.

**LOGS:** Entries must contain a log consisting of: Time (GMT), call, band, state/province, Wisconsin county, mode and a complete Score Summary including your name, address and call. Circle new multipliers as worked. Logs containing more than 100 QSOs must be accompanied by a dupe sheet (separate dupe sheet for each mode).  
Mobile entries must indicate county changes in log and submit a separate dupe sheet for each county.  
Entries must be postmarked by April 15, 1988 and sent to:

WISCONSIN QSO PARTY  
WEST ALLIS RADIO AMATEUR CLUB  
P. O. BOX 1072  
MILWAUKEE, WI 53201

**AWARDS:** NON-WISCONSIN: Awards will be presented to the highest single operator score in each Single Operator category in each state/province.  
WISCONSIN: Awards will be presented to the following:  
a. 10 highest Single Operator scores in each entry class  
b. Highest Multi-Operator score in each entry class  
c. Highest Aggregate Club Score (club member stations to be located within 50 miles of the club except for mobiles).

WISCONSIN COUNTIES				STATES			PROVINCES
ADAMS	FLORENCE	MARATHON	RUSK	ALABAMA	LOUISIANA	OHIO	ALBERTA
ASHLAND	FOND DU LAC	MARINETTE	SAUK	ALASKA	MARYLAND (D.C.)	OKLAHOMA	BRITISH COLUMBIA
BARRON	FOREST	MARQUETTE	SAWYER	ARIZONA	MASSACHUSETTS	OREGON	LABRADOR
BAYFIELD	GRANT	MENOMINEE	SHAWANO	ARKANSAS	MAINE	PENNSYLVANIA	MANITOBA
BROWN	GREEN	MILWAUKEE	SHEBOYGAN	CALIFORNIA	MICHIGAN	RHODE ISLAND	NEW BRUNSWICK
BUFFALO	GREEN LAKE	MONROE	ST. CROIX	COLORADO	MINNESOTA	SOUTH CAROLINA	NEWFOUNDLAND
BURNETT	IOWA	OCONTO	TAYLOR	CONNECTICUT	MISSISSIPPI	SOUTH DAKOTA	NORTHWEST TERRITORIES
CALUMET	IRON	ONEIDA	TREMPEALEAU	DELAWARE	MISSOURI	TENNESSEE	NOVA SCOTIA
CHIPPewa	JACKSON	OUTAGAMIE	VERNON	FLORIDA	MONTANA	TEXAS	ONTARIO
CLARK	JEFFERSON	OZAUKEE	VILAS	GEORGIA	NEBRASKA	UTAH	PRINCE EDWARD ISLAND
COLUMBIA	JUNEAU	PEPIN	WALWORTH	HAWAII	NEVADA	VERMONT	QUEBEC
CRAWFORD	KENOSHA	PIERCE	WASHBURN	IOWA	NEW HAMPSHIRE	VIRGINIA	SASKATCHEWAN
DANE	KEWAUNEE	POLK	WASHINGTON	IDAHO	NEW JERSEY	WASHINGTON	YUKON TERRITORY
DODGE	LA CROSSE	PORTAGE	WAUKESHA	ILLINOIS	NEW MEXICO	WEST VIRGINIA	
DOOR	LAFAYETTE	PRICE	WAUPACA	INDIANA	NEW YORK	WISCONSIN	
DOUGLAS	LANGLADE	RACINE	WAUSHARA	KANSAS	NORTH CAROLINA	WYOMING	
DUNN	LINCOLN	RICHLAND	WINNEBAGO	KENTUCKY	NORTH DAKOTA		
EAU CLAIRE	MANITOWOC	ROCK	WOOD				

## FROM THE EDITOR

Here are a few items to mentally munch on, gang:

(1) Our often-made and often-repeated pleas for pictures for BSSS bring response that can best be called underwhelming. And that often sends me to my boxes full of old photos, cuz, after all, we DO want to have pictures in this paper, don't we?

So, with that in mind, we note the Wisconsin QSO Party is coming in March.. and we'd surely like to find lots of post-QSO Party photos of participants arriving for us to publish! All photos are welcome, from operators at their home stations to those super-human mobile efforts. The photos don't have to be of operators who make major, high-scoring efforts, either; they are all welcome. Please fill my mailbox to overflowing with those pix; the address is on page 2.

(2) If your club station will be taking part in the Constitution Bicentennial project with a "200" call sign, PLEASE send us the pertinent information for publication. This includes: call sign, frequencies and modes, times of operation, the sponsoring club, and where QSL cards should be sent.

(3) And, finally, Charles Kaetel, W9SNK, Menomonee Falls, writes to tell us (and you) that the subject of last month's cover story, Jeanne Pierre Coenen, ON4KCH/NM9L, is a member in good standing of the Milwaukee Radio Amateur's Club; Jeanne Pierre joined MRAC in February 1986, when he came to Milwaukee to teach school. Thanks, Charlie!



## Concern Raised About RF Energy and Cancer

An alleged link between Amateur Radio operators and certain forms of cancer has once again found its way into the press. A similar incident occurred in 1985. Reportedly, in an article in the American Journal of Epidemiology, Dr. Samuel Milham has again related a possible link between hams' exposure to RF energy and incidences of several kinds of cancer.

A similar article by Dr. Milham appeared in the Lancet, the British Journal of Medicine, (April 6, 1985), where he studied the deaths of 1691 Silent Keys from Washington state and California. He claimed he found a greater number of deaths among the Silent Keys from certain kinds of leukemias than were reported in the general population of white males in a typical year.

Concern over this is understandable, but before you pull the plug on that ham rig there are a few things to consider. This study also showed that radio amateurs had fewer deaths than the general population from certain other kinds of leukemia, and in the earlier article there were, in the opinion of competent professionals, serious flaws in Dr. Milham's methodology. For example, QST Silent Key lists include only about one-third of deceased radio amateurs (not all are reported to the ARRL) and those who are reported are not representative of the population as a whole. The bottom line is that even the experts have disagreed as to the significance of the study, and it certainly did not establish a casual link between Amateur Radio operation and certain cancer incidences.

The ARRL position on the original study was summed up in October 1985 QST, where an editorial was presented covering the study, as well as other pertinent data and findings.

ARRL Headquarters has not yet seen the current study, so there is no way to know if the flaws in methodology seen in the original study have been corrected. When the article is received by the ARRL, it will be reviewed carefully by the ARRL Committee on Biological Effects of RF Energy.

If you would like to read the October 1985 QST editorial, and don't have a copy, the ARRL can provide you with one for an SASE. Send inquiries to: Regulatory Information Branch, ARRL HQ, 225 Main Street, Newington, CT 06111.

(From The ARRL Letter)

## Hiram Percy Maxim Award Nominees Sought

Do you know of a young amateur operator that is setting a good example of public service, education, and goodwill through Amateur Radio?

The Hiram Percy Maxim Memorial Award is presented annually to a deserving licensed Amateur Radio operator under the age of 21 whose accomplishments are the most exemplary within the framework of Amateur Radio activities. The categories include, but are not limited to: participation or leadership in organizations at the local or national level; technical advancement; operating; recruitment and training of new amateurs; and public relations activities.

First established in 1936, the award is traditionally made through the respective ARRL Section Manager providing nominations received from the membership. An award panel will review the nominations, and select the winner. The winning young amateur will receive a cash award of \$1000, an engraved plaque, and travel expenses to attend the ARRL convention at which formal presentation will be made.

Nominations should document the Amateur Radio achievements and contributions of the nominee throughout the preceding calendar year, and be as thorough as possible.

The Hiram Percy Maxim Memorial Award is intended to provide a tangible reward to those deserving young amateurs who contribute their time, skills, and energy daily through commitment to Amateur Radio.

Forward your nominations, or that of your club, to your ARRL Section Manager (Wisconsin: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee WI 53221) prior to June 1, 1988, and all nominations relayed by SMS must be at HQ Monday, June 15, 1988 for consideration. There is no limit to the number of nominations that may be submitted by each Section Manager.

(From The ARRL Letter)

(Last year's Hiram Percy Maxim Award winner was Scott L. Young, N9FZS, of Colby, Wisconsin. Scott is now attending the Milwaukee School of Engineering.)

**FCC LICENSES IN RECORD TIME:** The FCC's facility at Gettysburg has been turning out licenses in near record time. Since the addition of another person, the processing time is only taking about three weeks for Novice licenses. The time for Technician and above licenses is about five weeks, because these have to go through a VEC office, where processing can take up to an additional 10 days.

(From The ARRL Letter)

## Another 220 MHz Threat

TV Answer Inc (TAI) is a Virginia company that manufactures equipment used in interactive viewer response to television programming. This company has petitioned the FCC to designate a 500 KHz segment between 216 and 222 MHz as a return link from television viewers to cablecasters for the purpose of expanding its test market.

This return radio link would be 50 watts and, according to the company, the system would have the capability of handling nearly a million viewer responses per minute. Viewers would use a hand-held controller costing about \$100.

TAI has sent a program package to television stations across the country explaining the TV Answer proposal, which includes guidelines for commenting on their petition.

The ARRL filed strong comments in opposition to the petition on January 27, noting that TAI's petition must be termed a counterproposal to the FCC's proposal in Docket 87-14. Since this Petition was filed more than four months after the close of reply comments in that Docket, the FCC should dismiss the petition.

Our comments also noted that the TAI petition was based upon the faulty premise that the 220 band was "under utilized" by amateurs and we, tongue-in-cheek, suggest that TAI review the comments of the amateur community and the ARRL in 87-14.

We conclude by commenting that the petition fails to justify any spectrum allocation and state: "Many alternatives exist to the rather incredible proposal to install relatively high-power radio transmitters in each residence, to be operated by non-technical persons, on frequencies subject to serious interference to and from other, authorized, over-the-air services on adjacent frequencies. None of the available alternatives are even explored by TAI. We are simply asked to accept the two-sentence dismissal of each and every alternative to the usurpation of a 500 KHz segment. To jump to the tune played by TAI in this instance would be unconscionably poor spectrum planning on the Commission's part."

(From The ARRL Letter)

State of the Art Electronic Publishing

**R L Kosh Company**

Product Manuals - Technical Writing - Resume's  
Corporate & Club Newsletters - Hamfest Flyers

Call Today!



Laser Printing

(414) 563-5666

9:00 AM to 8:00 PM

ENTERTAINING AND INFORMATIVE —  
that's Badger State Smoke Signals!  
Subscribe today! Use the blank on page 10.

## RRRC Old-Timers • 1982



In this photo, taken January 12, 1982, are old-timer members of the Rock River Radio Club of the Dodge County, Wisconsin area. They are, left to right, **front row:** Duane Haas, W9BCV, Beaver Dam (licensed 50 years); Erwin Kraetzner, W9DQG, Lowell (51 years, now a Silent Key); Lester Miller, W9OFL, Waupun (48 years, now a Silent Key); Erwin "Red" Beneditz, W9LZG, Juneau (50 years); Willie Kretshmer, W9SLJ, La Grange, IL (42 years); Loren Skaltzky, W9DIG, Waterloo (53 years, now a Silent Key); and A. Clarence Victor, KØHPØ, Marion, IA (49 years, first licensed as W9TPY.) **Back row:** Roy Pedersen, K9FHI, Juneau (20 years); Louis Jansma, K9SPT, Waupun (21 years); Bettie Norbury, K9GJC, Watertown (25 years); Theron "Teen" Norbury, W9LUB, Watertown (43 years); John Klein Jr., K9OGT, Beaver Dam (23 years); and Roger Wolverton, K9DIB, Watertown (25 years).

This picture was taken at the club's annual winter party, where each of 15 old timers was honored with a certificate dated the year each was first licensed as an amateur radio operator.

Two old-timer members were unable to attend the party: John Doleshal, W9NF, Columbus, licensed for 31 years, and Gerald Bellman, W9IBY, Beaver Dam, licensed 50 years. An old timer certificate was presented to John Janczak, W9GTJ, Beaver Dam, in June 1981, prior to his death in October of that year. John was one of the founding members of the club. The combined years of this group as radio amateurs totalled 500.

The Rock River Radio Club organized in the 1930s, and is one of the oldest clubs in Wisconsin. The club meets the first Tuesday of the month at 8:00 p.m. at the Dodge County Sheriff's Department, 141 N. Main Street in Juneau.

The RRRC owns and operates the 146.04/146.64 repeater in Juneau.

- Arnie Zietlow, KA9FNE  
155 South Hyland Street  
Juneau, WI 53039

### DID YOU KNOW....

The first wireless in the United States was in the Brownstone Lighthouse at Holmdel, New Jersey? It was set up by Marconi to report the International Yacht Races of 1899, and was 200 feet above sea level.

- K9UTQ

## ARRL BOARD OF DIRECTORS MEETS

(Continued from front page)

meters with starting dates of November 15, 1945. The Five Band DXCC Award will be endorsable for additional bands, NOT including the 30, 17, or 12 meter bands at this time. The dates for submitting applications for these new DXCC awards will be announced soon.

A fund raising program was approved for renovation of W1AW, and will commence with an article to appear in April QST.

The West Indies Section was divided into two separate sections - Puerto Rico and the Virgin Islands, including Guantanamo Bay.

ARRL will file comments in the FCC proceeding to amend Part 15 of the FCC rules, Docket 87-389, opposing introduction of intentional radiating devices into the amateur bands. Comments will oppose relaxation of present restrictions on radiation from electronic devices, and support requiring greater education of users of this equipment as to the problem of RF interference.

Responding to recent reports in the media of a possible relationship between Amateur Radio and health hazards, the Board adopted a resolution emphasizing continuing ARRL support of legitimate investigations in this field, while at the same time deploring inaccurate and capricious assessments of scholarly work that have appeared in the news media, causing unfounded anxiety and concern among amateurs. (See page 13 of this issue of Badger State Smoke Signals.)

The Board also endorsed increased participation by ARRL in the NASA Manned Space Program and ratified the establishment of a fund for the defense of Amateur Radio frequencies in the amount of \$105,000.

(From The ARRL Letter)

## GET THE KEY PRICES

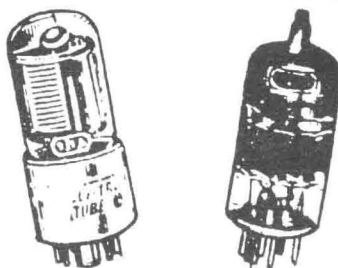
on  
Major Brand Equipment

- \* MFJ
- \* HUSTLER
- \* LARSEN
- \* BUTTERNUT
- \* MOBILE MARK
- \* B & W
- \* ARRL MANUALS

KEY COMMUNICATIONS  
ETC. INC.

BERWYN, ILLINOIS  
312-795-1314

## 7 MILLION TUBES



### FREE CATALOG

Includes all Current, Obsolete, Antique, Hard-To-Find Receiving, Broadcast, Industrial, Radio/TV types. **LOWEST PRICES**, Major Brands, In Stock.

UNITY Electronics Dept. H  
P.O. Box 213  
Elizabeth, NJ 07206



## Amateur Radio Scholarships for Wisconsin

Two scholarships in the amount of \$700 each are being awarded for the 1988-89 school year by the West Allis Radio Amateur Club, Inc. and are called the EMIL KUMERSHEK (W9WYF) MEMORIAL SCHOLARSHIPS. Eligibility requirements for the scholarships are Wisconsin residency, Technician class or higher Amateur Radio license, and registration with a college, university or technical school in the State of Wisconsin in a course leading to a

bachelor or associate degree.

The scholarships are being administered by the Foundation for Amateur Radio, which administers numerous scholarships available to Radio Amateurs. Applications or further information may be obtained by writing to:

F A R Scholarships  
6903 Rhode Island Avenue  
College Park, MD 20740, or

West Allis Radio Amateur Club, Inc.  
Scholarship Fund  
6237 W. Lincoln Creek Drive  
Milwaukee, WI 53218

- Dave Knaus, WA9POV

(Information about other scholarships administered by the Foundation for Amateur Radio is on page 9 of this issue.)



Phil Anderson, W9TP, Baraboo, shown above, is a Lutheran minister, serving the 800 baptized parishioners of St. Paul's Lutheran Church (ELCA), Baraboo. Phil was first licensed as WN9EWR in the early 1970s, along with son Rick (WB9EWQ) and daughter Sue (WB9EWP). Rick and Sue were both licensed in their teens, as was their other son, Steve, WD9ESA. Rick lives in Seattle with his wife Judy, and Sue lives in Maine with her husband, Earle Simpson. Steve is a student at the University of Wisconsin in Madison. Phil's patient wife, Joan, is not licensed (yet). If duties don't conflict, look for Phil from Sauk County in the Wisconsin QSO Party March 20 and 21.

### Builders - See Us!

Largest Selection Of  
Stuff in Wisconsin.

- CUSTOM COMPUTER CABLES
- TEST EQUIPMENT

More Than 100 Years of  
Electronics Experience!

## Schrenk Electronic Sales Co.

1900 BELD ST. - P.O. BOX 9868  
MADISON, WI. 53715-0868  
608-255-7400

## FOX CITIES AMATEUR RADIO CLUB

### -- SWAPFEST '88 --

#### PLACE:

APPLETON HIGH SCHOOL- EAST  
2121 EMMERS DRIVE  
APPLETON, WISCONSIN

TALK IN: 146. 16/76 & 144. 55/15

DIRECTIONS FROM HWY 41: EXIT COLLEGE  
AVE. TO THE EAST. FOLLOW COLLEGE  
AVE. THROUGH TOWN AND ACROSS THE  
BRIDGE TO JOHN STREET, RIGHT ON JOHN  
ST. TO EMMERS DRIVE.

\$1.00 ADMISSION CHARGE

#### DEALERS

#### -- SATELLITE CITY --

12581 CENTRAL AVE. N.E.  
BLAINE, MIN. 55434  
1-800-426-2881

#### -BURK ELECTRONICS-

35 N. KENSINGTON  
LAGRANGE, ILL.  
312-482-8310

DATE: MARCH, 12<sup>TH</sup>  
SATURDAY

SHOPPING NEAR BY AT THE 100 STORE  
FOX RIVER MALL ALSO NORTHLAND  
MALL, VALLEYFAIR MALL AND DOWNTOWN  
APPLETON

#### FREE PARKING

SPONSOR  
FOX CITIES AMATEUR RADIO CLUB  
C/O G.E. CROY, W9MDF  
318 E. BREWSTER ST.  
APPLETON, WI 54911

DOORS OPEN AT 6 A.M.  
FOR SELLERS AND  
7:30 A.M. FOR OTHERS

ELECTRIC EQUIPMENT, RADIOS,  
ANTENNAS, COMPONENTS FOR HAMS,  
COMPUTER HOBBYISTS, EXPERIMENTERS  
AND OTHERS

PLAN TO ATTEND

#### -- TABLES --

TABLES \$5.00

(BY RESERVATION ONLY)

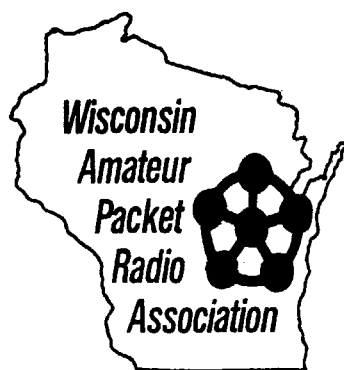
#### \* TESTING \*

WALK-INS ACCEPTED. ALL MUST  
HAVE ORIGINAL LICENSE AND  
PHOTO I.D.

#### CONTACT:

LARRY SIEBERS, KD9IA  
2077 MEYERS RD.  
FREEDOM, WI. 54130  
414-788-3823

SEND SASE WITH NAME &  
ADDRESS C/O:  
DON BAKER, NB9J  
621 W. 7th St.  
KAUKAUNA, WI. 54130  
414-766-3886



# THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)  
P.O. Box 436 Cedarburg, Wisconsin 53012-0436

Steve Loeffler, WB9ZRE, Editor  
123 W. Oshkosh St.  
Ripon, WI 54971  
-----

## WISCONSIN/MINNESOTA PACKET OPS CONFER FOR FOURTH TIME

The fourth in a series of highly successful RiverLAN packet radio conferences will be held Saturday, April 16 at the Courthouse Annex in Winona, Minnesota. Winona is about 25 miles from La Crosse, WI. This is the same conference that was held in Trempealeau and Onalaska, WI in the past. Talk-in will be on 146.04/64. The conference will begin at 9:30 a.m. and conclude at 3 p.m.

Past conferences have been an opportunity to new and interesting packet activities not only in the RiverLAN area, but throughout Wisconsin and Minnesota as active packet operators from both states have attended and discussed what is going on in their area. Also it is an important opportunity for planning on future packet expansion. For this conference, there will be discussions on TCP/IP; new Kantronics Nodes; digipeater expansion; worm-hole developments; changes in BBS's and for the first time for this conference, a separate seminar for new packet ops or those contemplating becoming involved in packet radio. This conference should provide an opportunity to find out what packet expansion projects are being planned for the Wisconsin-Minnesota area and how you can be involved.

To assist in planning for the conference, you are asked to send in your registration to WD9GCR. The registration may be mailed or sent via packet radio:

TO: WD9GCR @ W9LZQ-1  
Walt Altus  
W6539 Birch St.  
Onalaska, WI. 54650  
(608) 783-0580

Please register the following for the Saturday, April 16 RiverLAN Packet Conference at Winona, MN (Include call sign; name; street; city/st/zip and phone number):

Just in: W9NK will be holding a seminar on TCP/IP networking. If you would like to know more about it, I suggest that you make an effort to attend Dan's talk and Question/Answer session. ED.)

-----  
Packet Without A INC

Doug - W9WI reports that CompuServe's HAMNET now has a program for downloading that will turn the Commodore C-64 computer into a TNC! (No review of the program was available at presstime.)

## MFJ-1274 TNC Tune-up

The manual for the MFJ-1274 TNC doesn't have any information on how to calibrate the modem. As shipped from the factory, the modem tuning isn't necessarily right on and a noticeable improvement in performance can be obtained by tweaking it. The calibration procedure is completely self-contained and doesn't take long. This info comes from Roy, WA9KEC, who's done it once or twice:

- 1) Install a jumper on pins 1 and 6 (the right-hand set) of J9, and remove the jumper from J4.
- 2) Issue the command CALSET 438.
- 3) Issue the command CALIBRA, and press K to key the TNC.
- 4) Adjust R78 until the CON and STA LEDs are both lit. This will only occur with one of the two tones, so use the space bar to toggle between tones if necessary.
- 5) Issue the command CALSET 239, and repeat steps 3 and 4, this time adjusting R77 and toggling to the other tone. Once again, you should end up with both the CON and STA LEDs lit.
- 6) Move the jumper from J9 1-6 and put it on J9 2-5 (the middle set of posts). Remove the jumpers at J4 and J8.
- 7) Issue the command CALSET 157.
- 8) Adjust R79 until the CON and STA LEDs are lit -- they'll probably flicker back and forth, but that's ok.
- 9) Remove the jumper from J9 and reinstall the jumper at J8. You're done!

## GO-FAR HOLE TO BE REALITY SOON

A meeting was held on Wednesday morning, January 27th, with Janet Robidoux (K0JE), Doug Wheeland (W0KIT), Bob Engberg (K0MVL) and Carl Estey (WA0CQG) attending to discuss the proposed "wormhole" project. The "GO-FAR Hole" - as it has been nick-named - is taking shape and is expected to start carrying traffic between Minnesota and Maryland very soon.

A 1200 baud commercial circuit between the University of Maryland and Eagan, Minnesota is ready and has already been tested. NET/ROM's, TNC's, transceivers and all of the other things necessary to make the "GO-FAR Hole" work are now being purchased.

Equipment for the Minnesota node-end will be purchased by the TwinsLAN Amateur Radio Club and

will operate on 145.01 Mhz using NET/ROM and the alias MN2MD with the callsign of K0MVL-1. This purchase was approved by the TwinsLAN Board of Directors at the September 15th meeting.

The Maryland-node end will be purchased by Doug Wheeland, W0KIT, and operate on 145.67 Mhz with the alias MD2MN and callsign of W0KIT-1.

"GO-FAR Hole" will be capable of being linked to the "Worm-hole" - which connects the University of Maryland area with Santa Cruz, California. This new communications facility will link Amateurs within the TwinsLAN area, plus much of the Upper-Midwest, to both East and West Coasts on a 24-hour per day basis for message store- and-forward operations, regardless of HF band conditions.

Carl Estey - WA0CQG  
-----

## KA-Node Database

If you are running a 24 hour Node please forward the following info:

NODE NAME: The alias used - for example AAA or WA9XYZ-2  
CALLSIGN: Callsign used by the network node.  
LOCATION: Nearest city to node  
STATE: State where node is located  
TYPE: What kind of node is it - KA-NODE, NET/ROM, etc.  
FREQ.: What frequency is the node on?  
VERSION: Firmware version # of the network. Net/Rom 1.3 or Kantronics 2.8  
OTHER: Geographic coverage area, path to use, or anything else useful.

We are in the process of updating the database. What we are in particular need of is info on the many new KA-Nodes. Your help in this effort will allow the latest info to be in our upcoming release of the Upper-Midwest Packet Network Directory. Note that this directory includes: IA, IL, IN, MB, MI, MN, ND, NE, OH, ON, SD, and WI. This is a real BIG area - so I need your input now to assure accuracy and completeness of the "directory".

Please send your input to: Carl Estey - WA0CQG @ WA0CQG  
-----

## Warning - Software Sabotage!

One thing that we all like to do is receive new programs and play around with them. Well sometimes one can get into trouble with a new program. Has everyone heard of a Trojan horse? Well, when it pertains to software watchout! I am a avid user of landline BBS's. I swap many of public domain and user supported software. Occasionally someone with a sick mind will up load a program to a BBS that he has modified and let me tell you .... let the user beware!!! Most of



these programs look like "usefull" utility programs to organize your hard drive or make your word processor do neat tricks. I wont tell you the name of the landline BBS that I got the program from because he or she is innocent, but I downloaded a program from it and unarchived it. Upon running this program it printed "Arf Arf I got you!!!" and proceeded to wipe out the File allocation Table (FAT) on my hard drive. Now all would of been ok, but I didn't have my BBS files backed up, because I hadn't had things setup all the way yet and that was just "one more thing to do!" Boy was I dumb... In less that 2 seconds the BBS was off the air!!!!!! After about four hours of programming I'm back on AND WITH THE PROGRAM BACKED ON FLOPPY TWICE!!!

The 'ol "it'll never happen to me" syndrome will get you everytime!

Dave - Sysop @ KU9L-1 BBS

Editors note: Due to it's size, the following has been presented in two installments. Part I was in last month's Wisconsin Packeteer, part II follows:

#### Glossary of Packet Terms for the Confused

FCS - (Frame Check Sequence). A 16 bit number used to validate the accuracy of a packet frame. See checksum.

firmware - The operating instructions of a dedicated device that resides in non-volatile ROM or EPROM memory.

FRMR - (FRaMe Reject). An on-screen indication that a transmission in protocol has occurred. The TNC will attempt to re-synchronize frame numbers, however a disconnect may occur.

Gateway - A very general term for anything that connects two networks together. In the ARPA world, "gateway" has a much more specific meaning: a packet switch that handles IP datagrams.

IP - (Internet Protocol). The core protocol of the ARPA suite. IP is a simple connectionless (datagram) protocol that handles addressing, fragmentation and type-of service routing in the heterogeneous internetwork environment.

IS - (Intermediate System). ISO's term for a packet switch.

ISO - (International Standards Organization). Publishes specifications for everything from screw threads to computer communication protocols. Also, International Snake Oil...oops, promised to keep things neutral.

KA9Q Internet - name for a C software package developed by KA9Q with programming contributions from N3EUA, K3MC, NG6Q, WA3CVG, PA0GRI, NN2Z, WB6ECE, AJ9X, K4FUM, N9DVG, K3EZ and probably some others I've overlooked. Implements the major elements of the ARPA protocol suite: IP, ICMP, TCP, UDP, Telnet, FTP, SMTP and ARP. Also implements subnetwork drivers for SLIP, KISS, AX.25, Ethernet and Appletalk. Primary environment is the IBM PC (and clones), but has been ported to 68K-based machines like the Commodore Amiga and Apple Macintosh, also to UNIX System 5 environments. Sources, objects and

documentation are available for anonymous ftp from louie.udel.edu under /pub/ka9q.

KISS - (Keep It Simple, Stupid). A TNC operating mode where the TNC merely translates packets between half duplex, synchronous HDLC on the radio port and full duplex asynchronous SLIP framing on the host port; the host computer must implement all higher level protocols, including AX.25 if it is used. Gives the host computer full access to and control over all fields in each packet. Compensates for the lack of a HDLC hardware controller on many computers.

NET/ROM - A proprietary product of Software 2000, Inc (WA8DED and W6IXU). Consists of ROM firmware for the TNC-2. Implements AX.25 at the link layer, with ad-hoc protocols at the network and transport layer. Also provides a command interpreter and "transport level bridge" that patches incoming or outgoing vanilla AX.25 connections to internal transport layer connections. Uses datagrams at the network layer, virtual circuits at the transport layer. Provides automatic routing between NET/ROM nodes, the user is still responsible for "source routing" between the end NET/ROM nodes and the ultimate source and destination.

Murphy's Law - That famous maxim that 'whatever can go wrong, will'. No matter what mode of operation you choose to pursue, 'Murphy' was there first!

OSI - (Open Systems Interconnect). A project of the ISO to develop a set of computer communications protocols.

PAD - (Packet Assembler/Disassembler). A device that interfaces an ordinary "dumb" terminal to an X.25 packet network. It gathers typed characters into outgoing packets and translates incoming packets back into serial into outgoing packets and translates incoming packets back into serial asynchronous data streams. Also provides a simple command interpreter for setting up and tearing down connections, controlling parameters, etc. The amateur packet radio TNC was heavily modeled on the PAD.

PTT - (Postal, Telephone and Telegraph authority). The government-owned phone monopoly found in almost every country except the USA.

RAM - (Random-Access Memory). A volatile memory integrated circuit which can be read and altered (written to) in normal operation.

RFC - (Request for Comments). Memoranda published in electronic form by the ARPA Network Information Center. Documents everything from informal proposals to established standards.

ROM - (Read-Only Memory). A non-volatile memory integrated circuit which can be read but not altered in normal operations.

Router - Yet another term for a packet switch. Used by Xerox's XNS and Digital's DECNET, two proprietary networking protocol suites very similar to (but incompatible with) the ARPA suite (and with each other).

RS-232 - A standard interface for the transmission of serial digital data.

simplex digi - a regenerative digital repeater that receives a packet, verifies that it was received correctly, and (if appropriate) retransmits it on the same frequency it was received on.

TCP - Transmission Control Protocol. A major element of the ARPA Suite. Provides reliable, connection-oriented byte stream service on an end-to-end basis. Runs atop IP and sits at the transport and session layers.

TELNET - A presentation/application protocol in the ARPA Suite used for terminal to terminal and terminal to host communications (e.g., remote login).

TP4 - An element of the ISO OSI suite. A transport protocol that provides reliable, connection-oriented byte stream service on an end-to-end basis, analogous to TCP in the ARPA suite.

VC - virtual circuit. The service provided by a connection-oriented network (qv). Virtual circuit data packets generally carry less header information than datagrams, since addresses have been specified at connection setup time.

wideband packet - Anything faster than 1200 baud. Generally refers to operation at 56kbps with modems designed by WA4DSY.

WORLI - Hank Orelson, WORLI, author of a very widely used packet bulletin board.

X.25 - A CCITT standard protocol for the subscriber interface to a public packet switched network. Consists of two layers, link (level 2) and packet (level 3). The amateur AX.25 protocol is a highly modified version of just the link layer of X.25; it does not have a packet layer.

X.75 - A CCITT standard protocol for the interface between two separate public packet switched networks. Resembles X.25 in considerable detail.

YAPP - (Yet Another Packet Program). Public domain packet program software in BASIC for various computers.

A thanks to Phil - KA9Q in compiling most of what you see in this glossary.

=====

We have received more material than we have space for in this issue, even with the extra pages we have this issue. We will be running extra pages again next month, so look for a TCP/IP article by W9NKK, Universal Traffic Queries, the WNA minutes, and some fine items from the recent GEARVAKf bulletin.

FREE WANT ADS in BADGER STATE SMOKE SIGNALS

FOR SALE: Commodore 1526 printer, good shape. Dot matrix, 80 column, \$120.00. Also Commodore 6400 Daisy Wheel Printer, 130 column, uses standard wheels & ribbons. It includes a C-64 link expander cartridge, \$145.00. Call Steve after 4:00 p.m. at (507) 452-9329, or P.O. Box 311, Winona, MN 55987.

(more ads elsewhere in this issue)

STM - (continued from page 4)  
 subject name. You would respond with - "QTC Sacramento, CA". Then you enter the message in standard format and that's it. Be sure to leave a space between ST, ZIP, @ and NTSWI. It is now on its way through various auto-forwarding digipeaters. The 67403 is the ZIP code (fictitious) of Sacramento and the @ NTSWI means National Traffic System Wisconsin is where it originated. All traffic on packet is handled by zip codes so it is very important that they be correct.

Give it a try sometime - it's great fun!!

On a more somber note, the West Central Wisconsin Traffic Net is no longer. It has not met with the requirements of being an NTS affiliate and the Net Manager resigned for

personal reasons. I do want to take this opportunity to thank Ruth NK9L for her efforts this past year in trying to make the net survive but apparently her efforts were negated by lack of support. I do hope that something can be resolved to reactivate WCWTN because the Local VHF nets serve as a vital link in the overall NTS plan.

Many of us were shocked to hear of the passing of W5UAU, Sid Pokorny (ex W9NRP) who was one of the stalwarts of traffic nets in Wisconsin before moving to Horseshoe Bend Arkansas some years back. Sid was also Section Communications Manager for several years. He will be missed by many as he still checked the nets from Arkansas when conditions permitted. He was a great inspiration to me in my early days of traffic

handling.

There was an "on-the-air" meeting of the Wisconsin Nets Association back in December. Details of that meeting are outlined in the minutes elsewhere in this publication as written by the Secretary, Bruce Cadwell, N9DGL.

That's it for now. CU on the nets and on Packet. 73.

Gene Santoski K9UTQ  
 Section Traffic Mgr - ARRL

Due to space limitations, the following is presented in two parts, Part I follows, and Part II will be presented next month.

#### UNIVERSAL TRAFFIC QUERIES

Gene Santoski, K9UTQ  
 Section Traffic Manager  
 Wisconsin Section ARRL  
 1220 18th St. So.  
 Wisconsin Rapids, WI. 54494

#### HOW IS DISCIPLINE MAINTAINED ON A TRAFFIC NET?

For a net to be efficient and effective in its efforts to clear traffic, discipline is a must. It is enforced by the Net Control Station during the entire net session. Here are the "ground rules" for individual stations to comply with to help the NCS maintain order on a net:

1. ZERO BEAT YOUR SIGNAL with that of the NCS. The NCS doesn't have time to chase all over the band for you. Make sure you're on frequency, and you will never be known at the annual net picnic as the "old so-and-so who's always off frequency."
2. REPORT IN ON TIME - especially if you have traffic or if you are a liaison to another net. Liaison stations are on a tight timetable. Don't hold them up by checkin in 10 minutes late with traffic they can take.
3. LIST YOUR TRAFFIC PROPERLY. On phone just say the word "traffic" and NCS will acknowledge by asking you to list your traffic. On CW list the traffic when you check in.
4. NEVER TRANSMIT WITHOUT NCS PERMISSION. In other words - speak only when spoken to unless it is an emergency situation.
5. CALL NCS ONLY IF YOU MUST.
6. TRANSMIT ONLY TO NCS UNLESS INSTRUCTED OTHERWISE.
7. ANSWER PROMPTLY WHEN NCS CALLS YOU. Do not make him have to call you repeatedly which wastes net time.
8. KNOW HOW THE NET RUNS. The NCS does not have time to explain procedure to you. Listen to the net a few times to get a "feel" of how things are done on a particular net.
9. DON'T LEAVE THE NET UNTIL THE NCS EXCUSES YOU unless you have no traffic listed or to take.
10. ANSWER THE NCS'S QUESTIONS OR INQUIRIES BRIEFLY.
11. KNOW YOUR PROCEDURES

If you follow the above basic guidelines, you will be a good net participant.  
 (Part II will follow next month.)

## Tri-County Amateur Radio Club

Proudly Presents

# HAMFEST '88

Sunday, March 27th

8:00 A.M. to 2:00 P.M.  
 (Open at 7:00 A.M. for Sellers Only)

Jefferson County Fairgrounds, Jefferson, WI

On Highway 18 West of Jefferson

#### FREE PARKING !

#### Air Force MARS Meeting

#### Talk-In Information

145.49 Jefferson Repeater & 146.52 Simplex - Please call Hamfest talk-in station - W9MQB

#### Amateur Radio Exams

Amateur exams will be administered by  
*Badger Examiner's*  
 Shuttle van will be provided

#### Food & Refreshments

Provided by Jefferson County 4-H Club

#### Beer

Served by Tri-County ARC

#### Prize Drawings !

Prizes will be drawn each hour  
 Grand prize will be drawn at 1:00 P.M.



Tickets \$2.50 Advance  
 \$3.00 At Door

Table 6' \$3.00 Advance  
 \$4.00 At Door

Table Space \$2.00

For Advance Tickets & Tables,  
 please send a self-addressed  
 stamped envelope to:

Tri-County ARC  
 P.O. Box 321  
 Milton, WI 53563-0321

NAME: \_\_\_\_\_

CALL: \_\_\_\_\_ PHONE # \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_



# Yellow Thunder Amateur Radio Club



**K9ODK  
WB9FDZ**

The next meeting of the Yellow Thunder Amateur Radio Club will be held in room 25 of the Baraboo Civic Center, Baraboo, Wisconsin, on Wednesday, March 16, 1988. The meeting start at 7:30 p.m. The program for the meeting will be on the MARA repeater system, conducted by none other the MARA President, Clyde Coffee, W9HSY

ATTENDANCE - FEBRUARY 16, 1988

NAME	CITY	CALL	MBR/GUEST
Art Kleefisch	Baraboo	W9WSS	M
Harry Westlund	Baraboo	K9EHJ	M
H. A. Reif	Baraboo	KA9YQP	M
Bill Klinkner	Sauk City		M
Augie Schuettler	Baraboo	WD9ESK	G
Brian Schell	Baraboo		G
Peter Sweeney	Reedsburg	WD9JIB	M
Bill (Illegible)	Merrimac		G
Don Harms	Baraboo		G
Duane Grotophorst	Loganville	KA9HKL	M
Jim Romelfanger	Baraboo	K9ZZ	M

The February 16, 1988 meeting of the Y.T.A.R.C. was called to order at 7:43 p.m. by V. Pres. Duane Grotophorst.

The minutes of the last meeting were approved as published in the B.S.S.S.

The Treasurer's report was given as:

Operating balance: \$356.65  
Total balance: \$388.59

The Secretary reported A.R.R.L.'s denial of a special 200 call. Our application was too late and they were issuing calls only to those stations operating from state capital locations.

The latest issue of the A.R.R.L. "Field Forum" bulletin was passed around for individual reading.

There were no more communications or business.

The "Buck Nite" drawing was held and the winning name was Bob Johnson, WB9EIW, who was not in attendance, so the next drawing will be for \$11.00.

## Eau Claire Amateur Radio Club

### MINUTES OF THE FEBRUARY MEETING

The meeting was called to order at 7:30 p.m. by President, Jerry Marx, NG9A. 23 members were present.

#### Committee Reports:

Andy, KA9HWN, reported that the trailer has been purchased, and is now at the residence of Darold Patrow, N9FLK. No action will be taken until the weather warms up. The plans need to be finalized for remodeling.

Steve Harr, KD9Y0, asked that the operating fund for our annual Hamfest be established. It is time for the flyers to be printed, and advance publicity started.

Don Alm, K9UXP, reported on our repeaters. He asked that we show special thanks to Joe Eide, KB9R, for his contribution to our 31/91 repeater, and to Bill Lowe, WB9ULA, for his work on the 84/24 machine.

Carl, W9NW reported that examinations were held on January 18th. Eight people were tested, with only 3 up-grading. Examinations will be held next April 16th.

The formal business meeting was then adjourned at 8:00 p.m.

The rest of the evening was then spent in an informal round table discussion of Ham Radio operations in general for the benefit of the members of the Novice class who were in attendance. The session was a mixture of questions by the Novice class members and general information and suggestions as offered by Y.T.A.R.C. members.

Respectfully submitted:  
Harry Westlund, K9EHJ, Secretary

#### YTARC BIRTHDAZE

Art Escher	WA9WUS	March	12
Fred Becker	W9KKM	March	17

#### SENTENCE SERMON

The purpose of prayer is not to bring God down to you, but to bring you up to God.

--James H. Mooers

The 6:30 p.m. daily traffic net on the K9UXP repeater has been discontinued. The Sunday night net, under Carl, W9NW, will continue to meet.

#### NEW BUSINESS:

The club voted to continue affiliation with the ARRL.

The club also voted to incorporate as a non-profit organization.

Patrick McNally, the new County Communications Officer has expressed a desire to establish closer relations with our club. The March meeting will be held as usual at the Parks and Recreation building at 7:30 p.m. After the meeting, we will tour the City-County Emergency Communications Center. All members are encouraged to attend.

A VCR on severe weather will be shown at the April meeting. We will also discuss our Roll in Weather Watch.

The Lunch Committee: KA9VNN and W9FAC.

Respectfully submitted,

Robert Fallis, W9BAR, Secretary

I'M A COLLECTOR and looking for: Radios and test gear before 1930. Scott Dual-Diversity, Scott 100, SX-116, SX-73. WW II submarine & plane photos, equipment, and literature. Military and police badges and patches, handguns and rifles. US stamps and coins. Also want a late transceiver, a hand-held, a scanner, and a hand-held scanner. Al, WA9DIE/AE 114 Lakeview, Milwaukee WI 53217. (414) 332-8888.

FOR SALE: VLF converter, Palomar Engineers. Converts 10-500 KHz to 3.5-4.0 MHz output.

Xitex MRS 10 CW converter, decodes CW and converts to ASCII or Baudot, loop or RS-232 to CW. Programmable cw speeds and baud rates.

Pearce Simpson Bimini 40 watt AM marine radio. Partially solid state. 40 watts output. 12 volt. See back issues of 73 Mag for conversion to 160 meters.

Heathkit HD-1250 solid state dip meter. Case and all coils.

Slinky 80-10 meter antenna. Assembled.

CW keyboard 5-99 wpm. See Jan. 78 issue of Ham Radio.

RITY modem boards RM-300 and DD350. See Sept. 78 issue of Ham Radio.

DD-350 selector magnet driver board. See Ham Radio Mag Mar. 76, page 27.

DU-200 UART board for selcom. See June 78 issue of Ham Radio.

Morse code send-receive micro board. Partially assembled with micro chip, program on prom, and display. See Jan. 80 issue of 73 Mag "The Perfect Morse Machine".

24 hr digital clock. No case. See Feb. 76 issue of Ham Radio.

Sears 1/4" cordless drill with charger. Needs replacement battery pack.

Above items in working condition and have documentation.

Contact Dale Marks, WB9ADB, N7953 Swan Rd., Burnett, WI 53922. (414) 485-4232 evenings.

DESKS

FILES  
PRINTING

SUPPLIES

*Baraboo Office Supply*

506 Ash Street  
BARABOO, WISCONSIN 53913

JOHN E. LEE

(608) 356-2056

JEFF SMITH  
General Manager

StarStation

AM 740

P.O. Box 456 • Baraboo, Wisconsin 53913 • (608) 356-3974

AD•VU•TV  
Subsidiary of WRPQ

WRPQ

STEREO





## BADGER STATE Smoke Signals

Serving Amateur Radio in Wisconsin



THE ORIGINAL MIDWINTER

## SWAPFEST

WAUKESHA EXPOSITION CENTER  
HIGHWAYS J & FT  
WAUKESHA, WISCONSIN

MARCH 20, 1988

JANUARY 14, 1989

Both Sponsored By  
**THE WEST ALLIS RADIO AMATEUR CLUB**  
P. O. Box 1072 Milwaukee, Wisconsin 53201

# The Shopping Center

## HAM IT UP EVERY SPRING MADISON SWAPFEST

April 10, 1988

DANE COUNTY EXPO CENTER  
FORUM BUILDING

Sponsored By MARA WB9AER  
Box 3403 - Madison, Wis. 53704

## SOUTH MILWAUKEE AMATEUR RADIO CLUB SWAPFEST

July 9, 1988  
(Held every July)

American Legion Park  
Shepard Ave. Oak Creek, WI

South Milwaukee ARC  
P. O. Box 102  
South Milwaukee, WI 53172

## AMATEUR ELECTRONIC SUPPLY®

4828 W. Fond du Lac Avenue  
Milwaukee, WI 53216  
Phone: (414) 442-4200

**Wisconsin WATS: 1-800-242-5195**  
(Call TOLL FREE outside of Milwaukee Metro area)

**HOURS:** Mon. thru Fri. 9-5:30; Sat. 9-3

## REPLACEMENT BATTERIES FOR COMMUNICATIONS



EVERETT H. YOST  
E.H. YOST & COMPANY  
KB9XI

7344 TETIVA ROAD  
SAUK CITY, WISCONSIN 53583  
TELEPHONE (608) 643-3194

Pierce's  
356-5122

323 S. Broadway  
Baraboo, WI



• WEDDINGS • BREAKFAST • LUNCH • DINNER  
• ANNIVERSARIES • BANQUET FACILITIES  
• SPECIAL OCCASIONS

NIGHTLY SPECIALS • FAMILY DINING  
SOUPS • STEAKS • SEAFOOD



RICHARD O. LUST, CAI  
Certified Auctioneer/Broker  
(608) 258-0024

## K9APW LUST AUCTION SERVICES

(608) 833-0011 / 258-8880  
7552 Pioneer Place  
Verona, Wisconsin 53593  
(Statewide Service To Hams - Since 1975)

Auctioneering Real Estate

## RHYME SUPPLY INCORPORATED



122 EAST COOK STREET PORTAGE, WIS.

COMPLETE LINE OF OFFICE MACHINES • FURNITURE • COMPUTERS

TELEPHONE  
608-742-3747-5371

KEN HUTLER



Giegerich's Sons  
Inc.

514 Park Avenue  
PRAIRIE DU SAC, WISCONSIN 53578

"Sauk Prairie's Quality Printers  
and House of Office Supplies"



## Radio Shack VODAK TV SALES

COLOR TV • B & W TV  
TOP TUNES • RECORDS • LP • STEREO  
TV ANTENNA SYSTEMS • CB • SCANNERS

We Stock  
COMPUTERS  
VCR's

PHONE 356-6666

We now sell & install Satellite TV systems

Antenna Wire and Insulators  
Coaxial Cable and Connectors  
Coaxial Adapters

404 Oak Street  
BARABOO, WIS. 53913



FAMOUS FOR  
GERMAN PANCAKES

MOTEL AND RESTAURANT

S5566 Hwy. 123  
Baraboo, WI 53913

Ph. 608-356-5511

## Jerry's Hallmark Shop

Cards-Partyware  
"Where Thoughtfulness Happens"

114 4th Ave.  
Baraboo, WI

356-6901

Darrow's



CHECK OUT OUR...  
EVERYDAY  
LOW PRICES

## COUNTRY MARKET

TOTAL DISCOUNT FOODS  
935 8th Street • Box 90  
Baraboo, Wisconsin 53913  
356-2106

We Buy Aluminum Cans

## Baraboo Floral Company

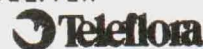


1406 East Street  
BARABOO, WISCONSIN 53913

FLOWERS FOR ALL OCCASIONS  
BUY FROM A GROWER

We wire flowers almost everywhere

PHONE 356-5336 - WE DELIVER



## BURK ELECTRONICS

Radios • Antennas • Electronic Equipment  
Sales and Service  
AMATEUR • BUSINESS • MARINE

WAYNE and ANN  
NA9B KA9TAC  
FCC License PG-18-7485

35 North Kensington  
La Grange, Illinois 60525  
(312) 482-9310

## TROYER Rexall DRUGS

JACK D. TROYER, R. PH. — DAVID M. FUHS, R. PH.  
106 - 4th AVENUE BARABOO, WISCONSIN

PHONE 356-4964

"Good Health Is Our Business"

WE MAINTAIN A COMPLETE RECORD OF ALL  
YOUR FAMILY'S PRESCRIPTION PURCHASES

QSL Cards  
QSL Business Cards  
Write or Call TODAY for your  
FREE SAMPLES!

The Little Print Shop  
P.O. Box 1160  
Pflugerville, Texas 78660  
(512) 990-1192



SUPERMARKETS INC.

When in the area, shop our Baraboo, Fox  
Lake, Muscoda, Pardeeville, Portage  
North and Portage Downtown Stores!